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INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.
³Category C, 800-2¼; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2¼.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2¾.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¼.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2¼.
²Categories A,B,C,D, 800-2¼.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¼; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL ..RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹
NA when local weather not available.

- ¹Categories A,B, 1200-2; Categories C,D,
1200-3.

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²
NA when local weather not available.
¹Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

BURLEY, ID

BURLEY MUNI VOR-A
 VOR/DME-B
 NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10'
 RNAV (GPS) Rwy 10
 RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D,
 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
 Categories A, B, 1400-2; Categories C,D,
 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15'
 LOC/DME Rwy 15'
 RNAV (GPS) Y Rwy 15'
 RNAV (GPS) Z Rwy 15,1200-2
 VOR or GPS-B,1400-3
 VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D,
 1300-3.

³Categories A,B, 1500-2; Categories C,D,
 1500-3.

CALDWELL, ID

CALDWELL
 INDUSTRIAL RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30
 NA when local weather not available.

CASPER, WY

CASPER/NATRONA
 COUNTY INTL ILS or LOC Rwy 3
 ILS, Categories A,B, 800-2; Category C 800-
 2½; Category D, 800-2¾; Category E, 900-3.
 LOC, Category C, 800-2½; Category D, 800-
 2¾; Category E, 900-3.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
 FIELD ILS or LOC Rwy 27'
 NDB Rwy 27'
 RNAV (GPS) Rwy 9²
 RNAV (GPS) Rwy 13²
 RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS

CODY, WY

YELLOWSTONE
 REGIONAL RNAV (GPS) Rwy 22'
 VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2¾.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
 BOYINGTON FIELD ILS or LOC/DME Rwy 5
 NDB Rwy 5
 RNAV (GPS) Rwy 5
 VOR Rwy 5
 VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
 Categories A,B,1200-2; Categories C,D,
 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
 NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
 VOR/DME or GPS-B
 NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
 Categories A,B, 1100-2; Categories C,D,
 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
 Categories A, B, 1100-2.
 NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25'
 RNAV (GPS) Rwy 29
 VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3'
 RNAV (GPS) Rwy 21²
 VOR/DME Rwy 3'
 VOR Rwy 21'

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2½; Category D, 1300-3.

NAME ALTERNATE MINIMUMS

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
 ILS or LOC Y Rwy 16R¹
 ILS or LOC/DME Rwy 16L¹²
 RNAV (GPS) Rwy 34R²
 VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34¹²
 RNAV (GPS) Rwy 16³
 RNAV (GPS) Rwy 34⁴
 VOR/DME Rwy 16⁵
 VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

GLENDEIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 25

NA when local weather not available.

NAME ALTERNATE MINIMUMS

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
 NDB Rwy 33
 ILS or LOC Rwy 15
 COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
 RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁶
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁶

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E,
 1600-3.

³Categories A, B, 1300-2; Categories C, D,
 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D,
 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D,
 2900-3.

⁹1000-4.

²Categories A, B, 2200-2; Categories C,D, 2200-3.

NAME ALTERNATE MINIMUMS

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34³⁴

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D, 1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D, 1400-3.

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

NAME ALTERNATE MINIMUMS

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather reporting service.
Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2¼, Category D, 1000-3. LOC, Category C, 900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²³
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²⁴
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³NA when control tower closed.

⁴Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32

NA when local weather not available.

NAME ALTERNATE MINIMUMS

PASCO, WA

TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D, 700-2½. LOC, Category D, 800-2½.

³Category D, 800-2½.

PENDLETON, OR

EASTERN OREGON RGNL AT

PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7

NA when local weather not available.

¹ILS, NA when control tower closed.

PINEDALE, WY

PINEDALE/RALPH WENZ

FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²

NA when local weather not available.

¹Category C, 800-2½; Category D, 800-2½.

²Category D, 800-2½.

POCATELLO, ID

POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²

¹NA when control zone not in effect.

²NA when local weather not available.

PORT ANGELES, WA

WILLIAM R

FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS

PORTLAND, OR

PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁵
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁸
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

⁵Category D, 1000-3.

⁶Categories A,B,C 800-5; Category D, 1000-5.

⁷NA when local weather not available.

⁸Category D, 1000-3.

⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30

NA when local weather not available.

¹Categories A, B, 1500-2; Categories C, D, 1500-3.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3;
 Category D, 1300-3.

PULLMAN/MOSCOW, WA

PULLMAN/MOSCOW

MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY

RAWLINS MUNI/

HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.

²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD ILS or LOC Rwy 22¹
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E,
800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾;
Category D, E, 1000-3.

RENTON, WA

RENTON MUNI NDB Rwy 16¹
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
1000-3.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY RNAV (GPS) Rwy 35
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND NDB Rwy 19¹
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL ILS or LOC Rwy 28
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROSEBURG, OR

ROSEBURG RGNL RNAV (GPS)-B
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD ILS or LOC Rwy 31¹²
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C,
800-2½; Category D, 800-2½. LOC, Category
C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK VOR/DME or GPS-A
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL ILS Rwy 13R¹
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½;
Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾;
Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY ILS or LOC/DME Rwy 32
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI NDB Rwy 1¹
NDB Rwy 19²
RNAV (GPS) Rwy 1³
RNAV (GPS) Rwy 19³

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

²Categories A, B, 1000-2; Category C, 1000-
2¾; Category D, 1000-3.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
RNAV (GPS) Rwy 3²
VOR Rwy 3³

- ¹ILS, Category D, 700-2.
²Category D, 800-2½.
³Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS ILS Rwy 17¹
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI RNAV (GPS)-A
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL ILS or LOC Rwy 25¹
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

WALLA WALLA, WA

WALLA WALLA RGNL ILS or LOC Rwy 20¹
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

WENATCHEE, WA

PANGBORN
MEMORIAL ILS Y Rwy 12, 1300-4
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29

NA when local weather not available.

WORLAND, WY

WORLAND MUNI VOR or GPS Rwy 16
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD ILS Y Rwy 27^{1,2}
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.

Rwy 34, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA-obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA

ARLINGTON MUNI

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR

ASTORIA RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA

AUBURN MUNI

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR

AURORA STATE

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT

BAKER MUNI

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR

BAKER CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA

BELLINGHAM INTL

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR

BEND MUNI (BDN)

AMDT 4 09183 (FAA)

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY

MILEY MEMORIAL FIELD

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading
098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of
runway, 535' right of centerline, 11' AGL/3511' MSL,
cars on road, beginning from 624' from departure end of
runway, 427' right of centerline, 15' AGL/3523' MSL,
ground beginning 21' from departure end of runway, 499'
right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport
security fence, abeam departure end of runway, 500' left
of centerline, 11' AGL/3672' MSL to 1200' from
departure end of runway, abeam rwy centerline, 11' AGL/
3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or
higher assigned altitude) direct IDA VOR/DME, before
proceeding on course. **Rwy 19**, climb to 7000 (or higher
assigned altitude) direct PIH VORTAC, before
proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)
AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN
DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use
BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min.
climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right
turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb
to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000
before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end
of runway, 522' left of centerline, up to 17' AGL/456'
MSL, multiple trees and poles beginning 1210' from
departure end of runway, 622' left of centerline, up to 100'
AGL/561' MSL, multiple trees and bushes 1012' from
departure end of runway, 708' right of centerline, up to
100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning
176' from departure end of runway, 337' left of centerline,
up to 100' AGL/514' MSL, multiple trees beginning 371'
from departure end of runway, 277' right of centerline, up
to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per
NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std.
with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.
Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. **All aircraft** proceed via CZI R-319 to
CZI VOR/DME.

BURLEY, ID

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min.
climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight. **Rwy 6**, climbing left turn direct BYI VOR/
DME, continue climb in BYI VOR/DME holding pattern
(hold Northwest right turns, 125° inbound) to cross BYI
VOR/DME at or above MEA for route of flight. **Rwy 20**,
climbing right turn direct BYI VOR/DME, continue climb
in BYI VOR/DME holding pattern (hold Northwest right
turns, 125° inbound) to cross BYI VOR/DME at or above
MEA for route of flight. **Rwy 24**, climbing right turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER,
513' left of centerline, 57' AGL/4195' MSL. Trees
beginning 686' from DER, 201' right of centerline, up to
35' AGL/4184' MSL. Tree 694' from DER, 375' left of
centerline, 29' AGL/4178' MSL. Obstruction light on
building 736' from DER, 188' left of centerline, 11' AGL/
4161' MSL. Tower 803' from DER, 590' left of centerline,
55' AGL/4204' MSL. Vehicles on road beginning 857'
from DER, 1' right of centerline, up to 17' AGL/4168'
MSL. Poles beginning 1226' from DER, 549' left of
centerline, up to 72' AGL/4222' MSL. Building vent 1240'
from DER, 164' left of centerline, 27' AGL/4177' MSL.
Stack 2206' from DER, 856' right of centerline, 86' AGL/
4236' MSL. Stack 2573' from DER, 614' left of
centerline, 86' AGL/4236' MSL. Elevators beginning
3980' from DER, 131' right of centerline, up to 133' AGL/
4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172'
right of centerline, up to 14' AGL/4163' MSL. Rising
terrain beginning 49' from DER, 326' right of centerline,
up to 4149' MSL. Bush 150' from DER, 103' right of
centerline, 5' AGL/4147' MSL. Antenna 586' from DER,
398' left of centerline, 15' AGL/4165' MSL. Obstruction
light on bridge 1061' from DER, 80' right of centerline,
39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD
(COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE: **Rwy 24**, use CONUK (RNAV)
DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in

visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad

beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**,

obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)

AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)

AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD
 DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.
Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.
All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)
 TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.
 DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...
 ...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.
 NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017
 DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.
 TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON
 TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.
 DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER
 DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR
 TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.
 DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)
 AMDT 4 09071 (FAA)
 TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.
 DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.
 NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)
 ORIG 08269 (FAA)
 DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.
 NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 100'-Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD
(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT
DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windssock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.



LAKEVIEW, OR**LAKE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY**LARAMIE RGNL**

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT**LAUREL MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID**LEWISTON-NEZ PERCE COUNTY**

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT**LEWISTOWN MUNI**

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR**LEXINGTON**

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT**LIBBY**

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT**MISSION FIELD (LVM)****AMDT 3 09071 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR**MADRAS MUNI (S33)****AMDT 1 10154 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 16, 22**, std. with a min. climb of 298' per NM to 3900 or 1300-3 for climb in visual conditions

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence... **Rwy 16**, climbing right turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence... **Rwy 22**, climb heading 216° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence...

...continue climb-in-hold (hold North, right turns, 168° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 4**, vehicle on road beginning 7' from DER, 268' left of centerline, up to 15' AGL/2444' MSL. Airplane on tarmac 60' from DER, 252' right of centerline, 40' AGL/2469' MSL. Bush 383' from DER, 483' right of centerline, 19' AGL/2439' MSL. Vehicle on road 742' from DER, 112' right of centerline, up to 15' AGL/2447' MSL. **Rwy 16**, bushes beginning 196' from DER, 151' left of centerline, up to 14' AGL/2444' MSL. Airplane on tarmac 1357' from DER, 280' right of centerline 40' AGL/2479' MSL. **Rwy 34**, bushes beginning 92' from DER, 116' right of centerline, up to 17' AGL/2437' MSL. Airplane on tarmac 1396' from DER, 375' left of centerline, 40' AGL/2469' MSL.

MC CALL, ID**MC CALL MUNI (MYL)****AMDT 2 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD FIELD (KTCM)

TACOMA, WA 10154

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400.

Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn.

All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 5 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 475' per NM to 1200 or 900-3 with a min. climb of 300' per NM to 900 or 1600-2½ for climb in visual conditions. **Rwy 13**, 400-2½ with a min. climb of 250' per NM to 2500 or 1600-2½ for climb in visual conditions. **Rwy 31**, 300-1½ or std. with a min. climb of 280' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 043° to intercept OTH VORTAC R-337 northwest bound to 1800 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 13**, climb heading 132° to 1300 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 22**, climb heading 223° to 700 before proceeding on course. **Rwy 31**, climb heading 312° to 800 before proceeding on course.

NOTE: **Rwy 4**, Obstruction light on antenna 383' from DER, 207' right of centerline, 22' AGL/35' MSL. Ship 1000' from DER, on centerline, up to 140' MSL. Obstruction lights on bridge beginning 1886' from DER, 621' left of centerline, up to 93' AGL/93' MSL. Bridge beginning 4728' from DER, 580' right of centerline, 265' AGL/265' MSL. Obstruction lights on bridge beginning 4741' from DER, 948' right of centerline, up to 268' AGL/268' MSL. Transmission tower 5031' from DER, 677' right of centerline, 213' AGL/216' MSL. Trees beginning 1.2 NM from DER, 409' left of centerline, up to 150' AGL/549' MSL. Trees beginning 1.5 NM from DER, 1396' right of centerline, up to 150' AGL/629' MSL. Buildings beginning 1.7 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL. **Rwy 13**, bushes beginning 38' from DER, 175' left of centerline, up to 16' AGL/33' MSL. Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL. Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL. Trees beginning 346' from DER, 17' right of centerline, up to 150' AGL/349' MSL. Buildings beginning 504' from DER, 243' right of centerline, up to 86' AGL/106' MSL. Trees beginning 628' from DER, 6' left of centerline, up to 150' AGL/298' MSL. Antenna on building 712' from DER, 554' right of centerline, up to 51' AGL/68' MSL. Poles beginning 880' from DER, 13' right of centerline, up to 136' AGL/236' MSL. Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL. Pole 1.0 NM from DER, 159' left of centerline, up to 121' AGL/221' MSL. **Rwy 22**, ship 4050' from DER, on centerline, up to 140' MSL. **Rwy 31**, ship 1000' from DER, on centerline, up to 140' MSL. Trees beginning 5037' from DER, 15' left of centerline, up to 92' AGL/232' MSL. Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1
DEPARTURE PROCEDURE: **Rwy 7**, climb via heading
071° to 2000, then climbing right turn direct CVV
VOR/DME. Continue climb on course. **Rwy 25**, climb
via heading 251° to 2100, then climbing left turn direct
CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER,
212' left of centerline, up to 80' AGL/319' MSL. Multiple
trees beginning 664' from DER, 208' right of centerline,
up to 80' AGL/299' MSL. Fence 612' from DER, right
and left of centerline, 10' AGL/229' MSL. Multiple
bushes beginning 240' from DER, 64' left of centerline,
up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from
DER, left and right of centerline, up to 15' AGL/174'
MSL. Multiple trees beginning 2271' from DER, right
and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a
min. climb of 706' per NM to 600, or 2200-3 for climb in
visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading
085° to 1000 then climbing left turn direct OLM
VORTAC, thence... **Rwy 17**, climb heading 172° to 1200
then climbing right turn direct OLM VORTAC, thence...
or climb in visual conditions to cross OLM VORTAC at
or above 2300, thence... **Rwys 26, 35**, climbing right
turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern
(south, right turn, 356° inbound) to cross OLM
VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER,
214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of
centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple
trees beginning 1008' from DER, 24' left of centerline,
up to 100' AGL/490' MSL. Multiple trees beginning 752'
from DER, 3' right of centerline, up to 100' AGL/370'
MSL. **Rwy 26**, multiple trees and WSK on building
beginning 475' from DER, 595' left of centerline, up to
100' AGL/330' MSL. Multiple trees beginning 338' from
DER, 339' right of centerline, up to 100' AGL/309' MSL.
Rwy 35, multiple trees beginning 2176' from DER, 198'
left of centerline, up to 100' AGL/313' MSL. Multiple
trees and field light on hangar beginning 657' from
DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a
min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG
RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on
a heading between 010° CW to 141° from departure end
of runway or minimum climb of 280' per NM to 9600 for
all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings
beginning 90' from departure end of runway, 157' right
of centerline up to 120' AGL/2314' MSL. Multiple trees,
poles, and buildings beginning 502' from departure end
of runway, 506' left of centerline up to 120' AGL/2314'
MSL. **Rwy 32**, multiple trees, poles, and buildings
beginning 340' from departure end of runway, 405' left of
centerline up to 100' AGL/2458' MSL. Multiple trees,
poles, and buildings beginning 2' from departure end of
runway, 472' right of centerline up to 100' AGL/2431'
MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb
runway heading to 1000, thence... **Rwy 12**, turn left. **All**
others turn right. **All aircraft** climb direct PSC VOR/
DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON
(PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing
left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC,
thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern
(West, left turn, 073° inbound) to cross PDT VORTAC
at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER,
348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203'
from DER, 259' left of centerline, up to 13' AGL/1512'
MSL. **Rwy 29**, terrain 189' from DER, 247' left of
centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb
of 310' per NM to 8300, or 4900-3 for climb in visual
conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right
turn to 10000 via heading 190° and BPI R-040 to BPI
VOR/DME before proceeding on course. **Rwy 29**,
climbing left turn to 10000 via heading 230° and BPI
R-020 to BPI VOR/DME before proceeding on course
or for climb in visual conditions: cross Pinedale/Ralph
Wenz Field at or above 11800 before proceeding on
course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/min. climb of 270' per NM to 2900. **Rwy 21**, std. w/min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO (HIO)
AMDT 6 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, std. w/ min. climb of 215' per NM to 1900 or 1200-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 235' per NM to 2700 or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwy 20**, climbing left turn direct UBG VOR/DME... **Rwys 2, 30**, climbing left turn direct UBG VOR/DME, or for climb in visual conditions cross Portland-Hillsboro airport at or above 1600 then proceed direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (West, right turns, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL. Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12, terrain left and right of centerline beginning at DER up to 296' MSL. Trees 1836' from DER, 8' left of centerline, up to 125' AGL/331' MSL. **Rwy 20**, terrain left and right of centerline beginning at DER up to 306' MSL. Trees and hangers beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL. Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL. **Rwy 30**, terrain left and right of centerline beginning at DER up to 292' MSL. Trees beginning 1664' from DER, 626' right of centerline, up to 194' AGL/363' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY**POWELL MUNI**

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)
AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 33, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA**PULLMAN-MOSCOW RGNL**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.DEPARTURE PROCEDURE: **Rwy 16**, climbing rightturn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEA R-158 to COTNY INT/SEA 18.1 DME.

Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min.climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std.with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading

157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence ...

...Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right

turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND (RLD)

AMDT 8 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1, 8**, std. w/ min. climb of 310' per NM to 5000. **Rwy 19**, std. w/ min. climb of 480' per NM to 5000. **Rwy 26**, std. w/ min. climb of 350' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1, 8**, climbing left turn heading 220° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 19**, climbing right turn heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 26**, climb heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course.

NOTE: **Rwy 1**, crane 4957' from DER, 1271' right of centerline, up to 120' AGL/520' MSL. Poles beginning 752' from DER, 446' right of centerline, up to 20' AGL/416' MSL. Trees beginning 43' from DER, 102' left of centerline, up to 25' AGL/424' MSL. Multiple trees 184' from DER, 162' right of centerline, up to 25' AGL/424' MSL. **Rwy 8**, railroad beginning 181' from DER, left to right of centerline, up to 23' AGL/412' MSL. Sign 23' from DER, 122' right of centerline, up to 4' AGL/391' MSL. Trees beginning 1142' from DER, 12' right of centerline, up to 25' AGL/454' MSL. Trees beginning 2240' from DER, 94' left of centerline, up to 25' AGL/456' MSL. **Rwy 19**, bushes beginning 22' from DER, 297' left of centerline, up to 7' AGL/401' MSL. Trees beginning 323' from DER, 478' right of centerline, up to 25' AGL/424' MSL. Trees beginning 665' from DER, 399' left of centerline, up to 25' AGL/472' MSL. **Rwy 26**, antenna 310' from DER, 444' right of centerline, up to 7' AGL/408' MSL. Fence 458' from DER, 360' left of centerline, up to 25' AGL/425' MSL. Fence 456' from DER, 408' right of centerline, up to 25' AGL/410' MSL. Post 398' from DER, 255' right of centerline, up to 9' AGL/409' MSL. Bush 755' from DER, 257' right of centerline, up to 17' AGL/417' MSL. Ground 480' from DER, 488' right of centerline, up to 421' MSL. Trees beginning 174' from DER, 231' right of centerline, up to 25' AGL/425' MSL. Trees beginning 184' from DER, 210' left of centerline, up to 25' AGL/457' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURNLOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURNLOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002.

Rwy 19, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.



SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1½ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY**SHERIDAN COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
 ... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
 ... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT**SIDNEY-RICHLAND MUNI**

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA**HARVEY FIELD (S43)****ORIG 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/ min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/ min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL (GEG)

AMDT 5 10154 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 25**, climbing left turn direct GEG VORTAC, thence... **Rwys 7, 21**, climbing right turn direct GEG VORTAC, thence... continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeast bound V120-448, 5200; eastbound V2, 5200; southeast through westbound climb on course.

NOTE: **Rwy 3**, multiple trees beginning 1089' from DER, 666' left of centerline, up to 100' AGL/2370' MSL. Tree 1524' from DER, 851' right of centerline, 100' AGL/2374' MSL. **Rwy 21**, pole 2655' from DER, 1122' left of centerline, 42' AGL/2446' MSL. Tree 3391' from DER, 1315' right of centerline, 100' AGL/2466' MSL.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then all aircraft climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A, B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C, D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. All aircraft intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)
ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL
TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)
AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions. DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence. . . or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . . **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence. . . or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . .

. . . continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)
ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course

...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CWR-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CWR-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/ DME R-140 to JEZZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEZZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/ lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD)

(NUW)

OK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE:

Rwy 7: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

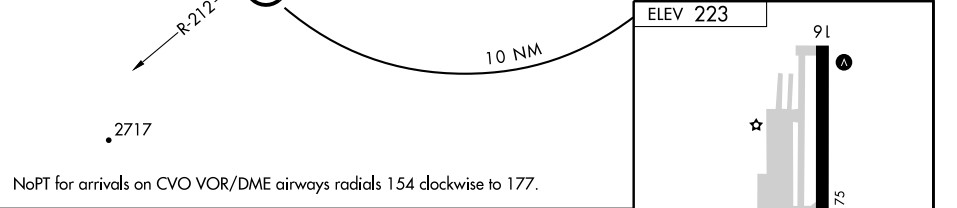
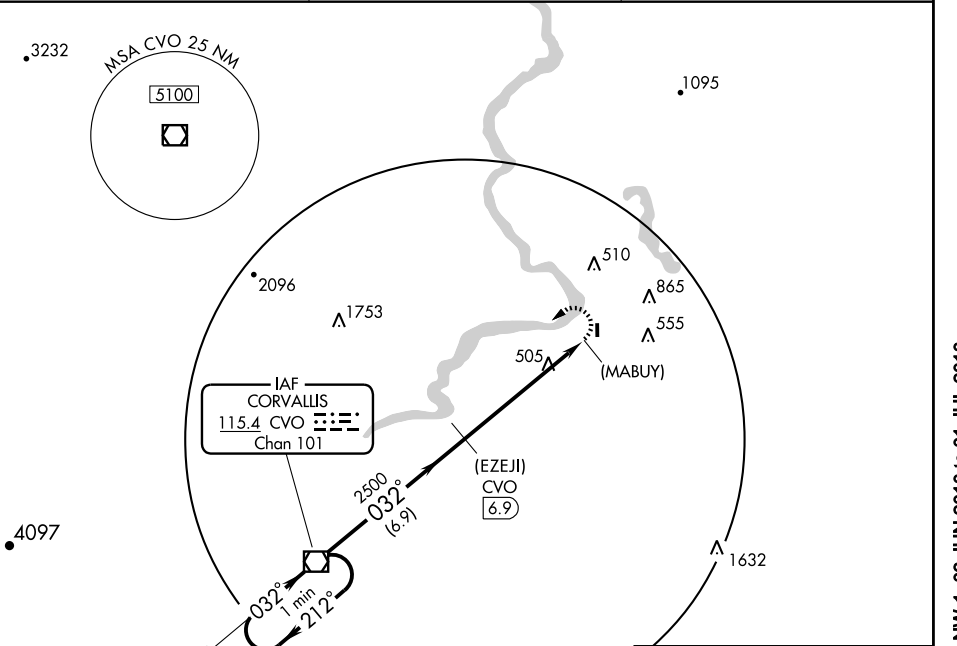
Use Corvallis altimeter setting.

MISSED APPROACH: Climbing left turn to 3500 via CVO R-032 to CVO VOR/DME and hold.

CORVALLIS AWOS-3
135.775

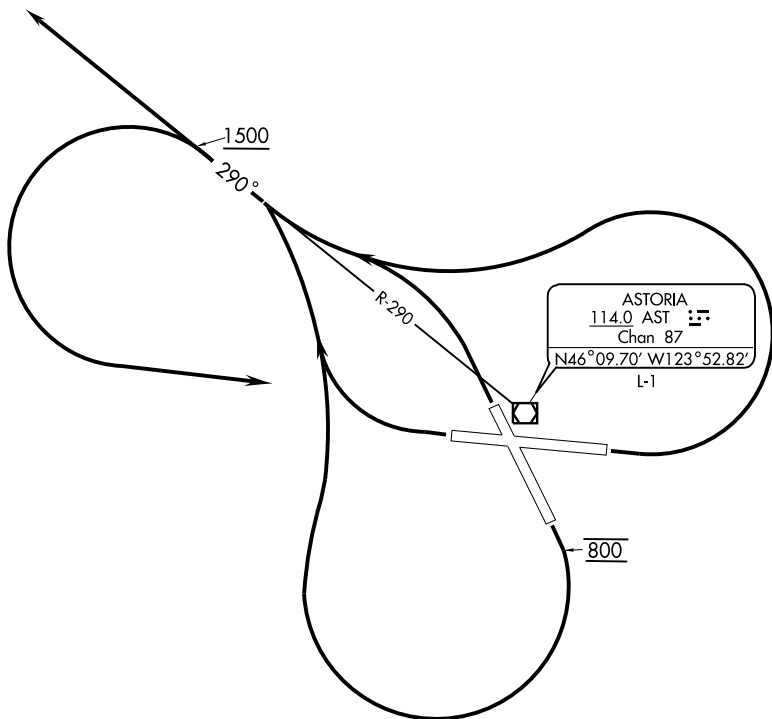
CASCADE APP CON ★
127.5 348.7

UNICOM
122.8 (CTAF) 0



One Minute Holding Pattern		VOR/DME							
CATEGORY		A		B		C		D	
CIRCLING		840-1		617 (700-1)		NA		REIL Rwy 34 MIRL Rwy 16-34	

SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.3



NOTE: TAKE-OFF MINIMUMS: Rwy 8, 800-3 or standard with minimum climb of 320' per NM to 900'. Rwy 13, 700-2 or standard with minimum climb of 350' per NM to 800'. Rwy 26,31, Standard.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8,31: Turn left. Thence....

TAKE-OFF RUNWAY 26: Turn right. Thence....

TAKE-OFF RUNWAY 13: Climb runway heading to 800 then climbing right turn. Thence....

.... Aircraft departing northwest bound climb via AST R-290 on course. All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

LOC I-AST	APP CRS	Rwy Idg TDZE	N/A
109.5	257°	Apt Elev	11

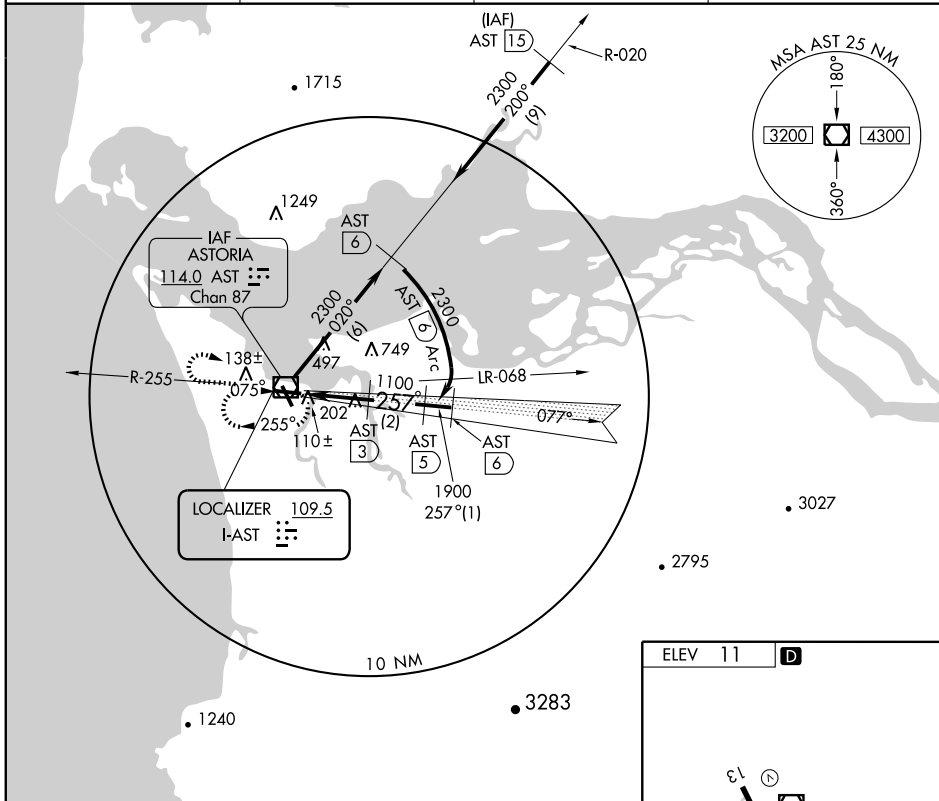
COPTER LOC/DME 257°


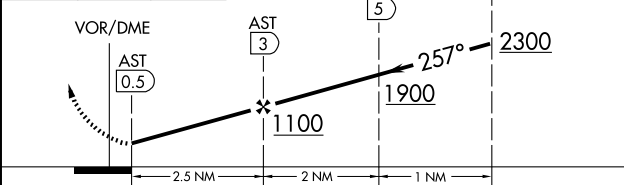
ASTORIA RGNL (AST)

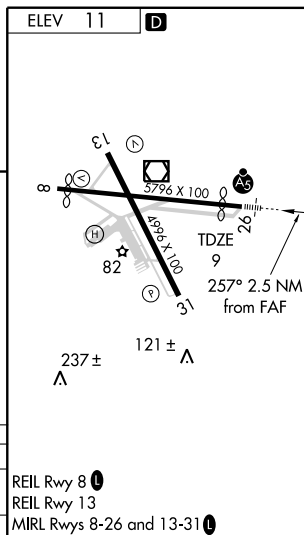
V DME from AST VOR/DME. Simultaneous reception of I-AST and AST VOR/DME required.
NA Increase visibility to ½ mile for inoperative MALSR.

MISSED APPROACH: Climb to 1500 then climbing right turn to 2300 direct AST VOR/DME and hold.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF)
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1500 ↑	2300 ↷	AST 114.0 	Procedure Turn NA		
					
CATEGORY	COPTER	B	C	D	
H-257°	380- ¼ 371 (400- ¼)	NA			
CIRCLING NOT AUTHORIZED					



REIL Rwy 8
 REIL Rwy 13
 MRL Rws 8-26 and 13-31

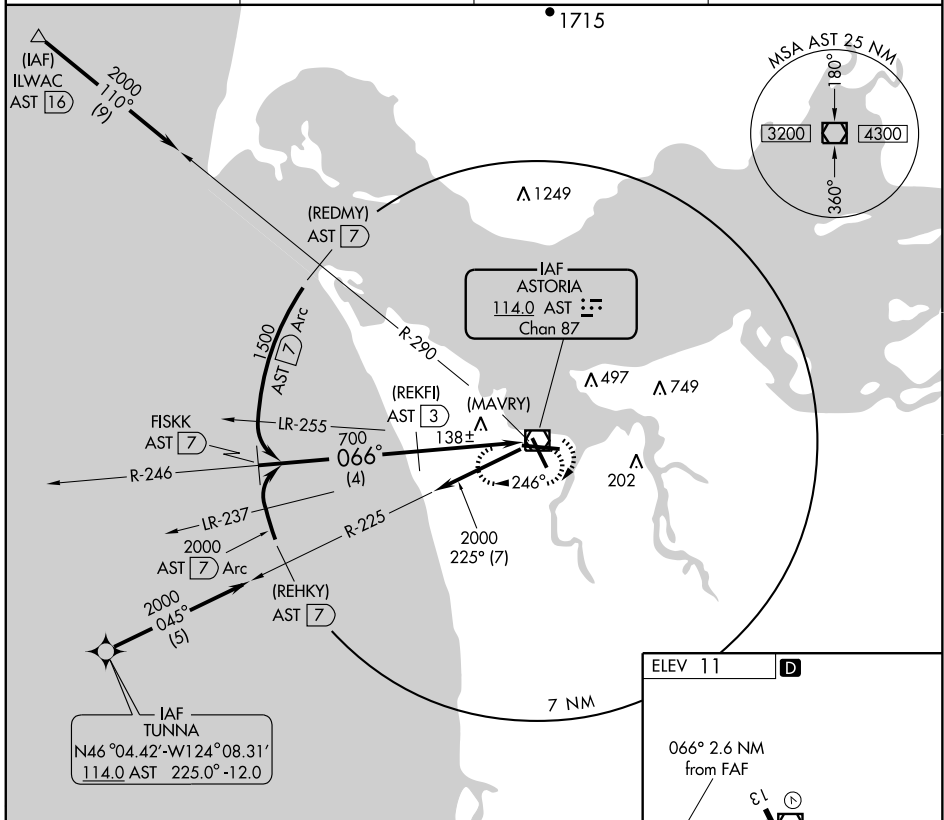
VOR/DME AST 114.0 Chan 87	APP CRS 066°	Rwy Idg TDZE Apt Elev 11	N/A N/A 11
-----------------------------------------------	------------------------	------------------------------------------	-------------------------

COPTER VOR/DME or GPS 066°

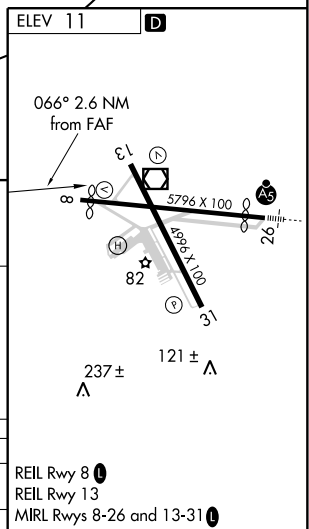
ASTORIA RGNL (AST)

NA	MISSED APPROACH: Climbing right turn to 2000 in AST VOR/DME holding pattern.
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ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) 0
------------------------	--------------------------------------	------------------------------------	---------------------------------



FISKK AST 7 1500 Procedure Turn NA 066° 700 (REKFI) AST 3 VOR/DME (MAVRY) AST 0.2 4 NM 2.6 NM 0.2 0.2				
CATEGORY	COPTER	B	C	D
H-066°	500-½ 489 (500-½)		NA	
CIRCLING NOT AUTHORIZED				

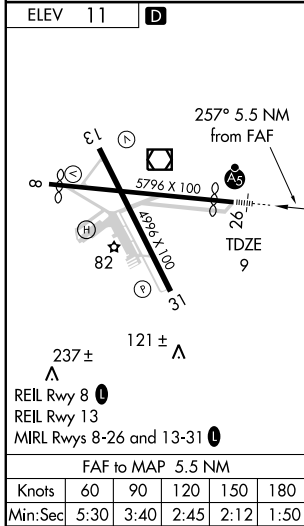
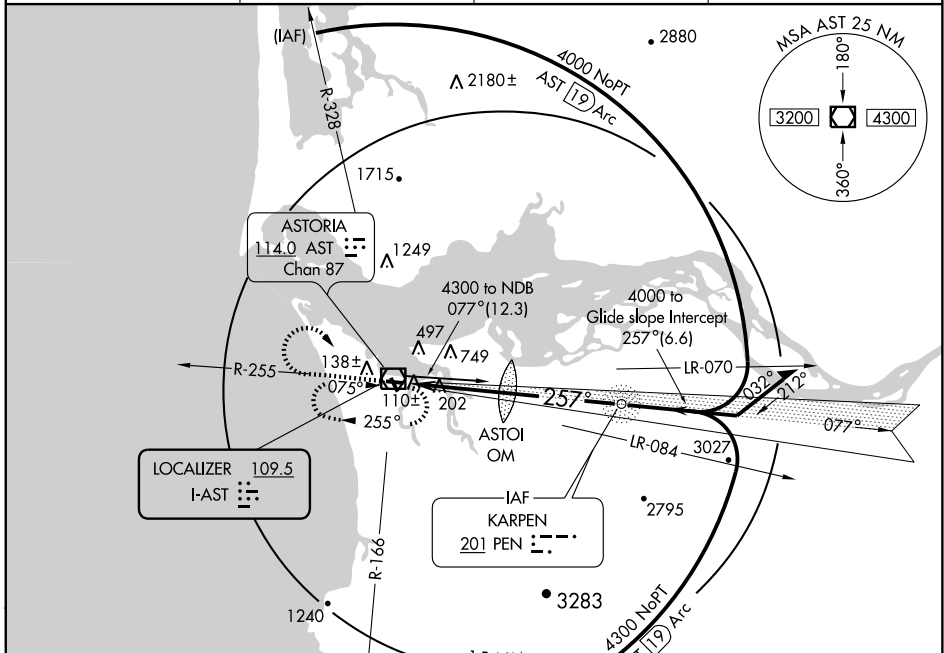


LOC I-AST 109.5	APP CRS 257°	Rwy Idg TDZE Apt Elev 4782 9 11
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ILS RWY 26 ASTORIA RGNL (AST)

<p>MAJ NA</p> <p>Circling requires descent on GS to MDA.</p>	<p>MALSR AS</p> <p>MISSED APPROACH: Climb to 1500 then climbing right turn to 2900 direct AST VOR/DME and hold.</p>
--------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF)
------------------------	--------------------------------------	------------------------------------	-------------------------------



ADF or DME REQUIRED				
ELEV 11	D	1500	2900	AST 114.0
<p>3057</p> <p>3027</p> <p>3022</p> <p>3021</p> <p>3020</p> <p>3023</p> <p>3024</p> <p>3025</p> <p>3026</p> <p>3027</p> <p>3028</p> <p>3029</p> <p>3030</p> <p>3031</p> <p>3032</p> <p>3033</p> <p>3034</p> <p>3035</p> <p>3036</p> <p>3037</p> <p>3038</p> <p>3039</p> <p>3040</p> <p>3041</p> <p>3042</p> <p>3043</p> <p>3044</p> <p>3045</p> <p>3046</p> <p>3047</p> <p>3048</p> <p>3049</p> <p>3050</p> <p>3051</p> <p>3052</p> <p>3053</p> <p>3054</p> <p>3055</p> <p>3056</p> <p>3057</p> <p>3058</p> <p>3059</p> <p>3060</p> <p>3061</p> <p>3062</p> <p>3063</p> <p>3064</p> <p>3065</p> <p>3066</p> <p>3067</p> <p>3068</p> <p>3069</p> <p>3070</p> <p>3071</p> <p>3072</p> <p>3073</p> <p>3074</p> <p>3075</p> <p>3076</p> <p>3077</p> <p>3078</p> <p>3079</p> <p>3080</p> <p>3081</p> <p>3082</p> <p>3083</p> <p>3084</p> <p>3085</p> <p>3086</p> <p>3087</p> <p>3088</p> <p>3089</p> <p>3090</p> <p>3091</p> <p>3092</p> <p>3093</p> <p>3094</p> <p>3095</p> <p>3096</p> <p>3097</p> <p>3098</p> <p>3099</p> <p>3100</p>				
CATEGORY	A	B	C	D
S-ILS 26	292-¾ 283 (300-¾)			
S-LOC 26	Approach not authorized when glide slope not utilized.			
CIRCLING ILS	700-1 689 (700-1)	760-1¼ 749 (800-1¼)	800-2¼ 789 (800-2¼)	880-2¾ 869 (900-2¾)

WAAS
CH 97711
W26A

APP CRS
257°

Rwy Idg
TDZE
Apt Elev

4782
14
15

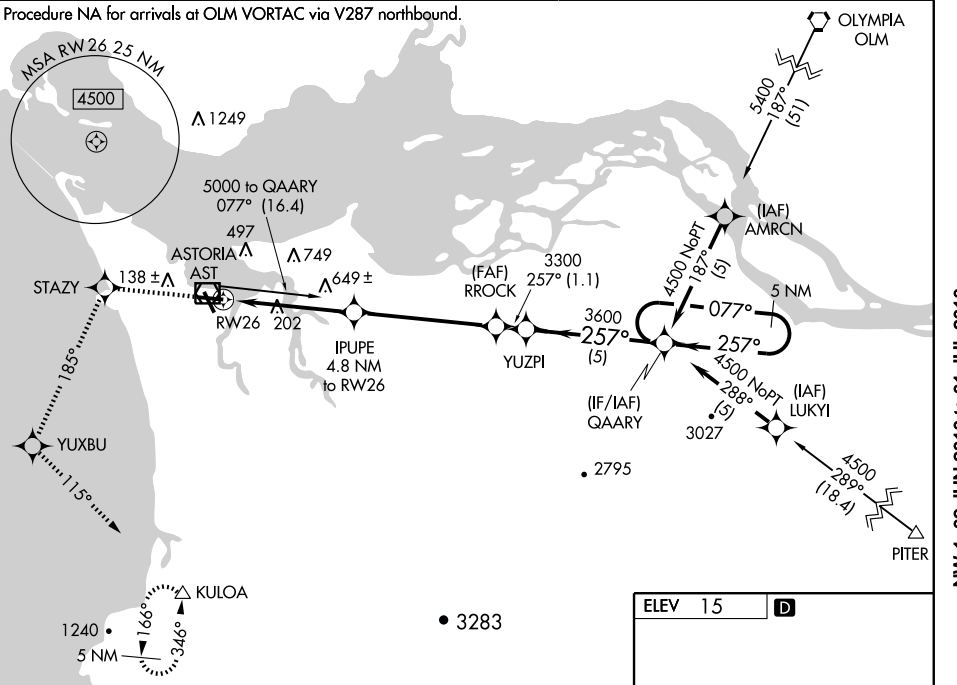
▼
▲

Inoperative table does not apply. DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.
When local altimeter setting not received, use Kelso altimeter setting and increase all DA 95 feet and all MDA 100 feet;
increase LPV all Cats, LNAV Cats C and D and circling Cats C and D visibility ¼ mile.

MALSR
A5

MISSED APPROACH: Climb to 5000 direct STAZY and via track 185° to YUXBU and via track 115° to KULOA and hold.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) 1
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5000	STAZY	185° trk	YUXBU	115° trk	KULOA	5 NM Holding Pattern
↑	✧		✧		△	
*LNAV only						
CATEGORY	A	B	C	D		
LPV DA	300-1		286 (300-1)			
LNAV MDA	900-1¼	886 (900-1¼)	900-2¾ 886 (900-2¾)	900-3 886 (900-3)		
CIRCLING	900-1¼	885 (900-1¼)	900-2¾ 885 (900-2¾)	900-3 885 (900-3)		

ELEV 15 D



REIL Rwy 8 1
REIL Rwy 13
MIRL Rwy 8-26 and 13-31 1

NW-1. 03 JUN 2010 to 01 JUL 2010

AL-24 (FAA)

VOR/DME AST <u>114.0</u> Chan 87	APP CRS 066°	Rwy Idg 4896 TDZE 14 Apt Elev 15
------------------------------------------------------	------------------------	-------------------------------------------------------------

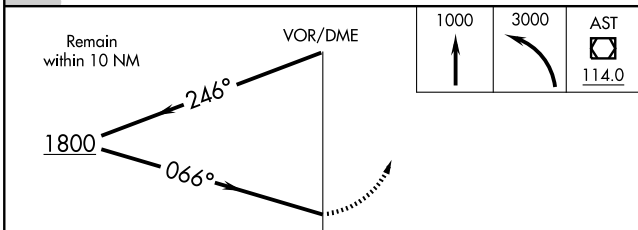
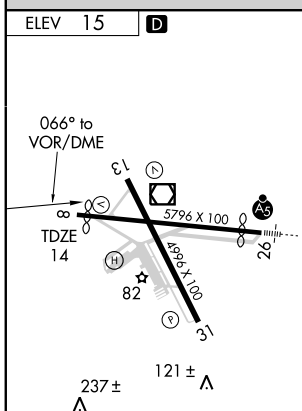
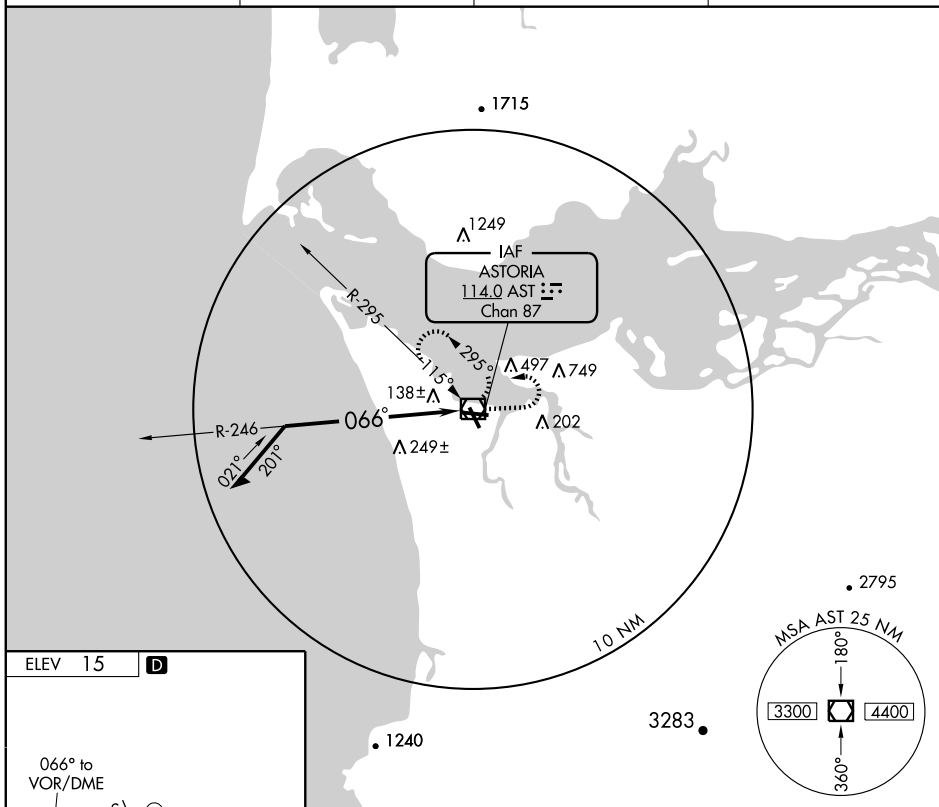
VOR RWY 8
ASTORIA RGNL (AST)

 	<p>MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 in AST VOR/DME holding pattern.</p>
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ASOS
135.375

SEATTLE CENTER
124.2 317.6

MC MINNVILLE RADIO
122.3

UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D
S-8	660-1	646 (700-1)	660-1 $\frac{3}{4}$ 646 (700-1 $\frac{3}{4}$)	660-2 646 (700-2)
CIRCLING	660-1 645 (700-1)	760-1 $\frac{1}{4}$ 745 (800-1 $\frac{1}{4}$)	800-2 $\frac{1}{4}$ 785 (800-2 $\frac{1}{4}$)	900-3 885 (900-3)

REIL Rwy 8 **L**
REIL Rwy 13
MIRL Rwy 8-26 and 13-31 **L**

NW-1. 03 JUN 2010 to 01 JUL 2010

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

▼

▲

Inoperative table does not apply.

ODALS

MISSED APPROACH: Climb to 900 then climbing left turn to 4000 via heading 050° and BTG R-160 to GLARA Int/ BTG 28.2 DME and hold. Continue climb-in-hold to 4000.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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ELEV 200	169° 7 NM from FAF	246±	232	276± A	5004 x 100	35	MIRL Rwy 17-35 0
900	4000	BTG R-160 116.6	GLARA	LUTZZ INT I-UAO 8	Remain within 10 NM	349°	3100
I-UAO 1	FIDOV INT I-UAO 3.1	3.19° TCH 40	900	2600	VGSI and descent angles not coincident.	169°	2600
2.1 NM	4.9 NM						
CATEGORY	A	B	C	D			
S-17	900-1 700 (700-1)		900-2 700 (700-2)	900-2 700 (700-2 1/4)			
CIRCLING	900-1 700 (700-1)		900-2 700 (700-2)	900-2 700 (700-2 1/4)			
FIDOV FIX MINIMUMS							
S-17	580-1 380 (400-1)			580-1 380 (400-1 1/4)			
CIRCLING	640-1 440 (500-1)	660-1 460 (500-1)	660-1 460 (500-1 1/2)	760-2 560 (600-2)			

NW-1, 03 JUN 2010 to 01 JUL 2010

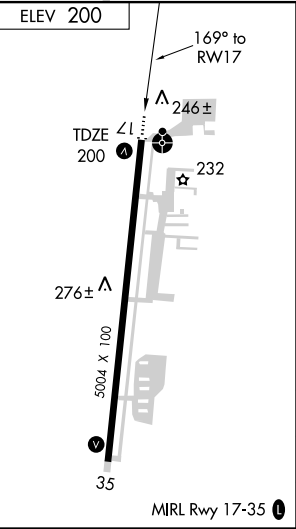
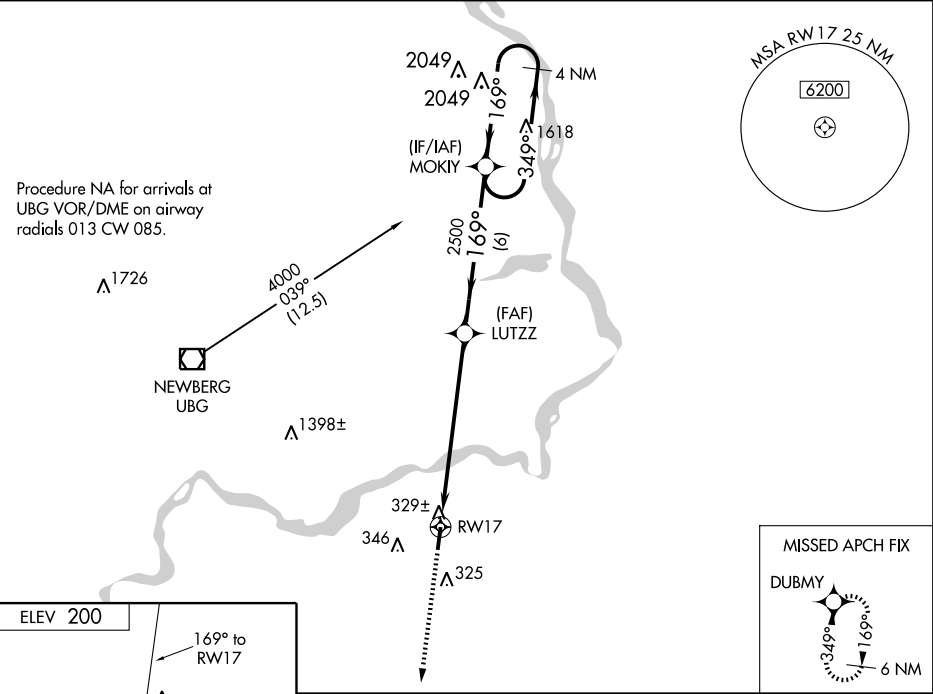
WAAS CH 70308 W17A	APP CRS 169°	Rwy Idg TDZE Apt Elev	5004 200 200
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⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV, LNAV/VNAV visibilities all Cats. ¼ mile, increase LNAV visibility Cats. A/C/D ¼ mile, increase Circling visibilities Cats. A/C/D ¼ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). Inoperative table does not apply. Visibility reduction by helicopters NA.

ODALS

MISSED APPROACH:
Climb to 3500 direct DUBMY and hold, continue climb-in-hold to 3500.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF)
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3500	DUBMY	VGSI and RNAV glidepath not coincident.	MOKIY	4 NM Holding Pattern
		LUTZZ	349° → 4000 ← 169°	
		RW17	2500	
		7 NM	6 NM	GS 3.00° TCH 40
CATEGORY	A	B	C	D
LPV DA	550-1¼ 350 (400-1¼)			
LNAV/VNAV DA	580-1¼ 380 (400-1¼)			
LNAV MDA	1060-1 860 (900-1)	1060-1¼ 860 (900-1¼)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)
CIRCLING	1060-1 860 (900-1)	1060-1¼ 860 (900-1¼)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)

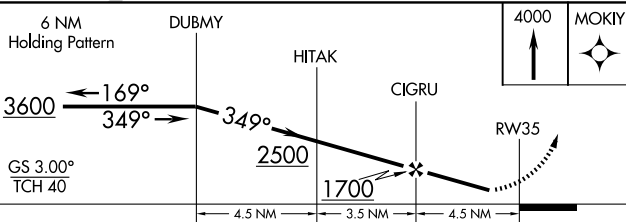
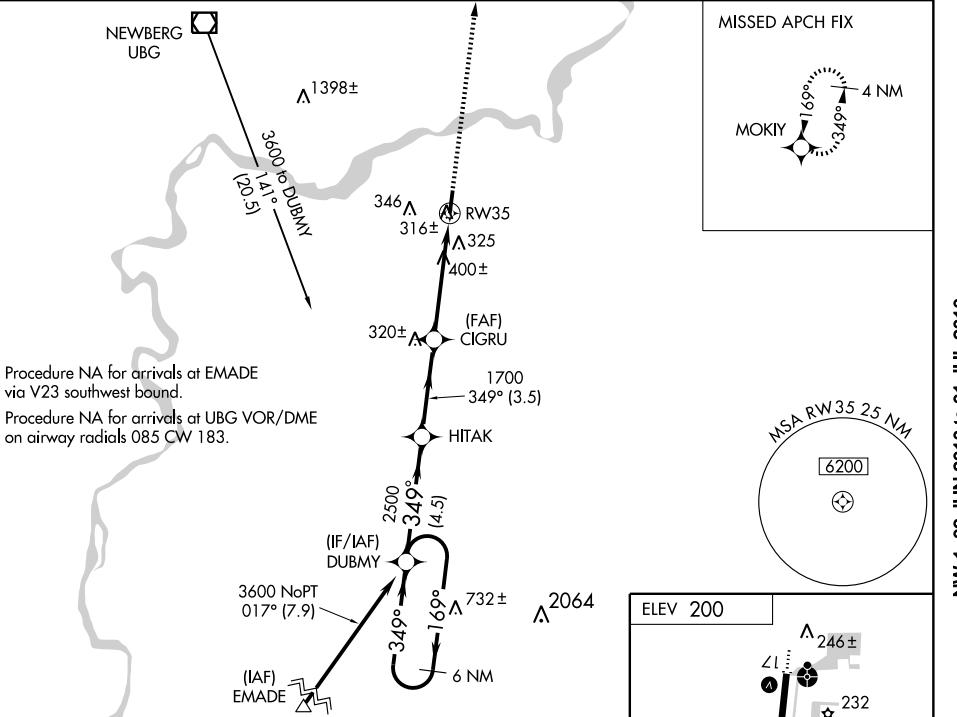
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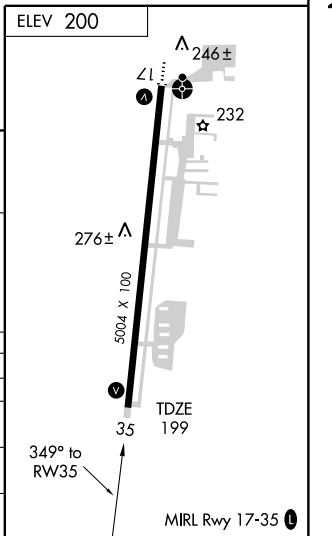
DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and MDA 60 feet; increase LPV, LNAV/VNAV visibilities ¼ mile all Cats, increase LNAV Cat D visibility to 1½. Visibility reduction by helicopters NA. Baro-VNAV NA when using Mc Minnville Muni altimeter setting.

MISSED APPROACH: Climb to 4000 direct MOKIY and hold, continue climb-in-hold to 4000.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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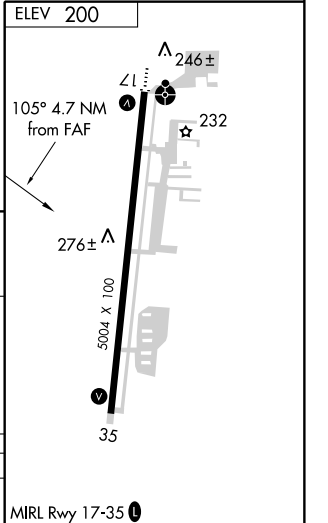
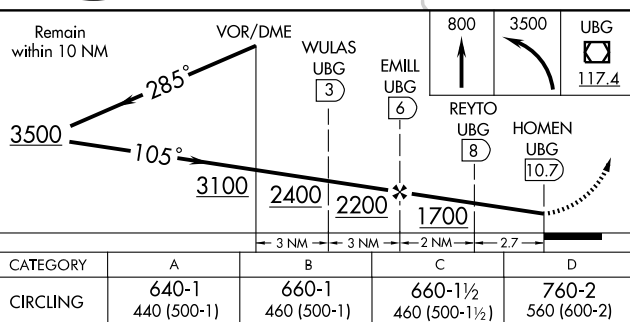
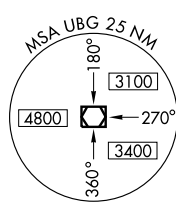
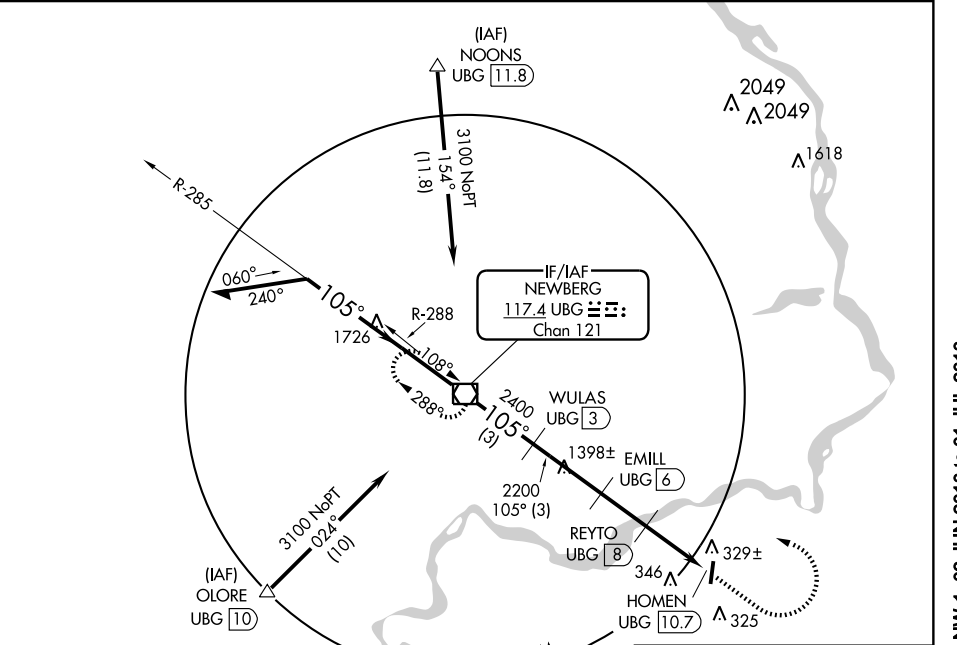
CATEGORY	A	B	C	D
LPV DA		500-1	301 (300-1)	
LNAV/VNAV DA		604-1½	405 (500-1½)	
LNAV MDA	700-1 501 (500-1)		700-1½ 501 (500-1½)	
CIRCLING	700-1 500 (500-1)		700-1½ 500 (500-1½)	760-2 560 (600-2)



NW-1. 03 JUN 2010 to 01 JUL 2010

MISSED APPROACH: Climb to 800 then climbing left turn to 3500 direct UBG VOR/DME and hold.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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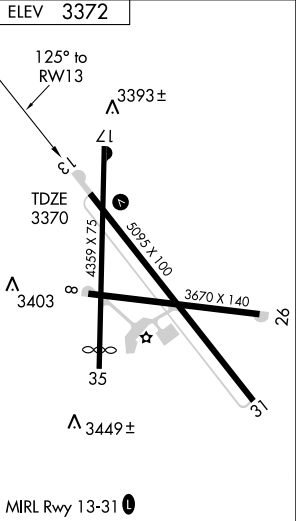
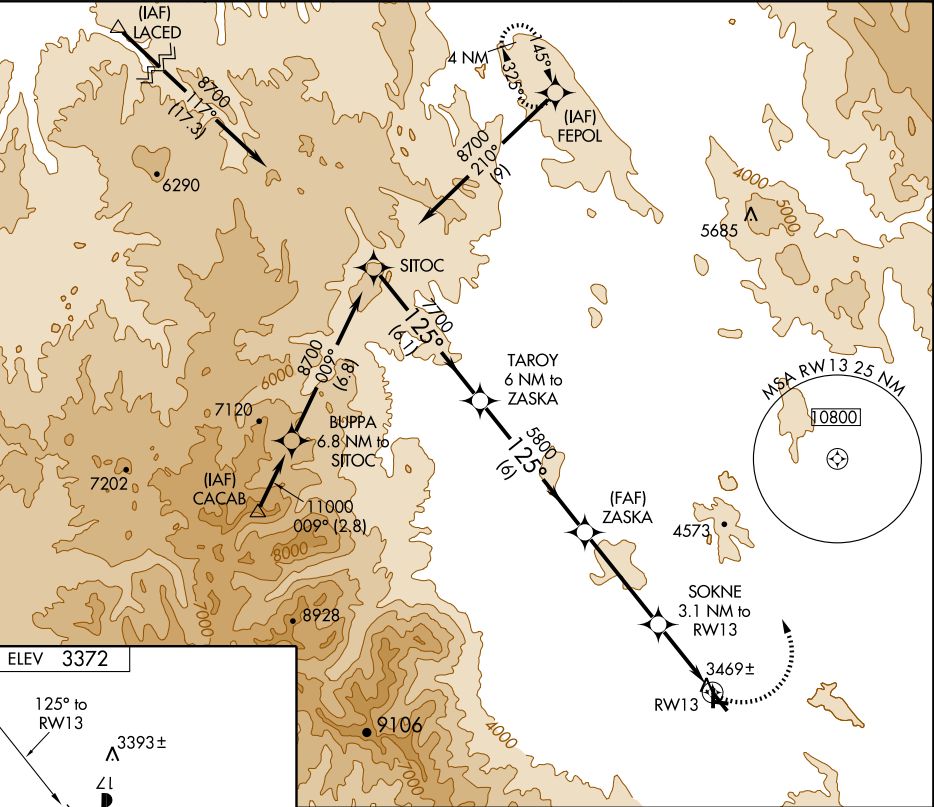
NW-1. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5095
125°	TDZE	3370
	Apt Elev	3372

RNAV (GPS) RWY 13
BAKER CITY MUNI (BKE)

<div><div></div><div></div></div> <div>DME/DME RNP- 0.3 NA.</div>	MISSED APPROACH: Climbing left turn to 9000 direct FEPOL and hold.
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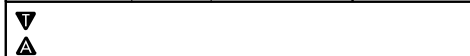
ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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	SITOC	TAROY 6 NM to ZASKA	ZASKA	SOKNE 3.1 NM to RW13	9000	FEPOL
	8700	7700	5800	4420		
	Procedure Turn NA					
	6.1 NM	6 NM	4.2 NM	3.1 NM		
CATEGORY	A	B	C	D		
RNAV MDA	4080-1	710 (800-1)	4080-2 710 (800-2)	4080-2 1/4 710 (800-2 1/4)		
CIRCLING	4080-1	708 (800-1)	4080-2 708 (800-2)	4220-2 3/4 848 (900-2 3/4)		

VOR/DME BKE 115.3 Chan 100	APP CRS 135°	Rwy Idg N/A TDZE N/A Apt Elev 3372
------------------------------------------------	------------------------	---------------------------------------------------------------

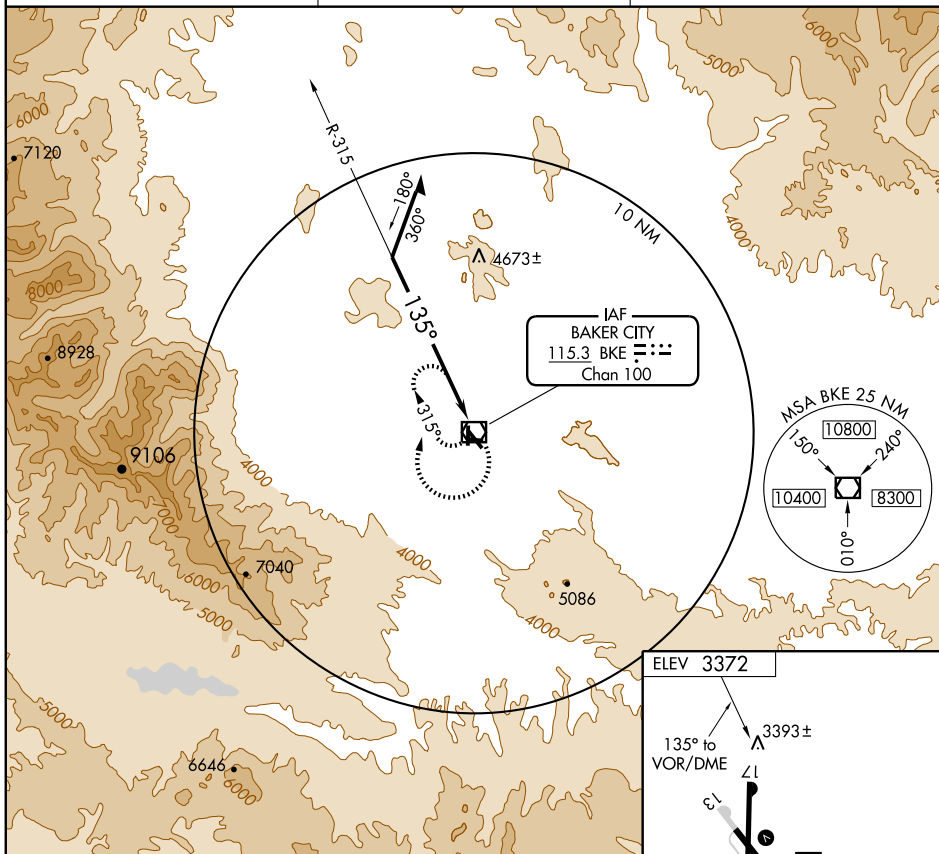
VOR-A
BAKER CITY MUNI (BKE)



MISSED APPROACH: Climbing right turn to 6900 in BKE VOR/DME holding pattern.

ASOS
134.275

SALT LAKE CENTER
128.05 387.15

UNICOM
123.0 (CTAF) 

NW-1. 03 JUN 2010 to 01 JUL 2010

Remain
within 10 NM

VOR/DME

6700

3

6900

DKE

BKE

ELEV 3372

 $0.3393 \pm$ 135° to
140°/5 min

VOR/DME 4

c. 1

2

✓

75

59 X

439

3403

515

8

25

35

A

A 34

1000

1000

1000

MIRL Rwy 13-3

CATEGORY	A	B	C	D
CIRCLING	5200-1¼ 1828 (1900-1¼)	5200-1½ 1828 (1900-1½)	5200-3	1828 (1900-3)

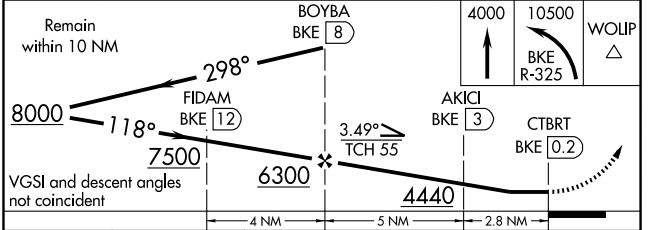
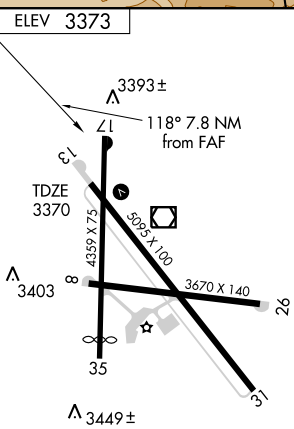
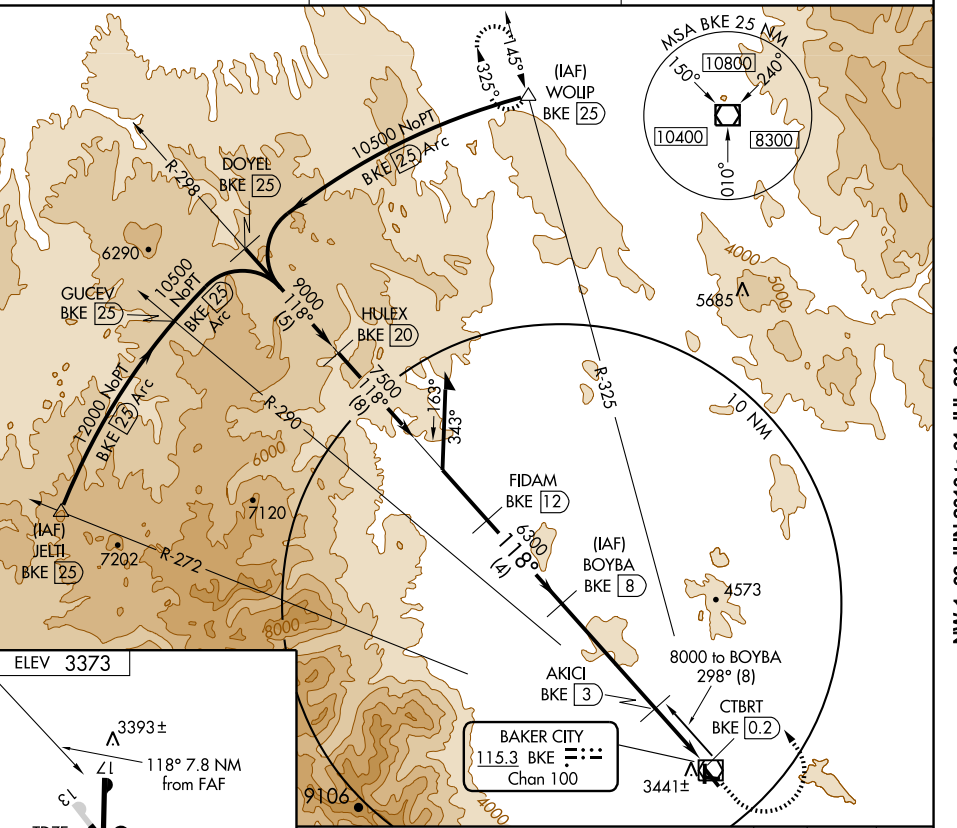
MIRL Rwy 13-31 **L**

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MISSED APPROACH: Climb to 4000 then climbing left turn to 10500 via BKE R-325 to WOLUP and hold.

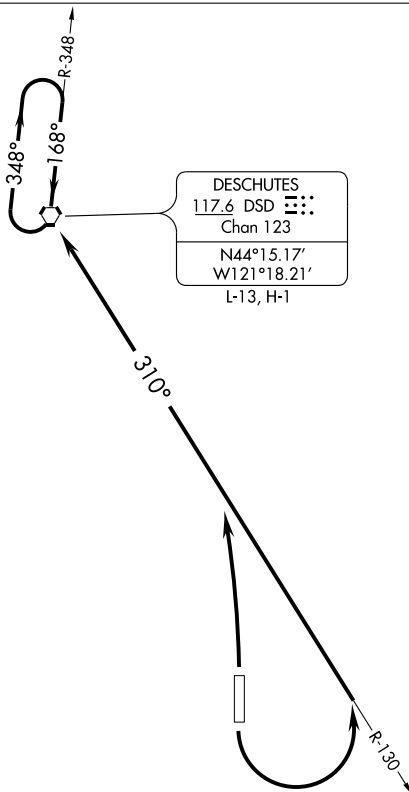
ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
S-13	4000-1	630 (700-1)	4000-1 3/4 630 (700-1 3/4)	4000-2 630 (700-2)
CIRCLING	4000-1 627 (700-1)	4000-1 627 (700-1)	4000-1 3/4 627 (700-1 3/4)	4220-2 3/4 847 (900-2 3/4)

BEND ONE DEPARTURE (OBSTACLE)

SEATTLE CENTER
128.15 257.75
CTAF 123.0

TAKE-OFF MINIMUMS

Rwys 16, 34: Standard.

TAKE-OFF OBSTACLE NOTES

- Rwy 16: Trees beginning 75' from DER, 412' left of centerline, up to 43' AGL/3572' MSL.
Trees beginning 432' from DER, 5' right of centerline, up to 37' AGL/3541' MSL.
Terrain beginning 27' from DER, 197' right of centerline, up to 3469' MSL.
Road 1' from DER, 414' left of centerline, 17' AGL/3466' MSL.
- Rwy 34: Trees beginning 306' from DER, 178' left of centerline, up to 25' AGL/3436' MSL.
Road beginning 460' from DER, 414' left of centerline, up to 17' AGL/3425' MSL.
Bush 94' from DER, 443' left of centerline, 4' AGL/3407' MSL.
Terrain beginning 1' from DER, 147' left of centerline, up to 3408' MSL.
Trees beginning 52' from DER, 252' right of centerline, up to 39' AGL/3429' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climbing left turn to intercept DSD R-130 to DSD VORTAC,
Thence

TAKE-OFF RUNWAY 34: Climbing left turn to intercept the DSD R-130 to DSD VORTAC,
Thence

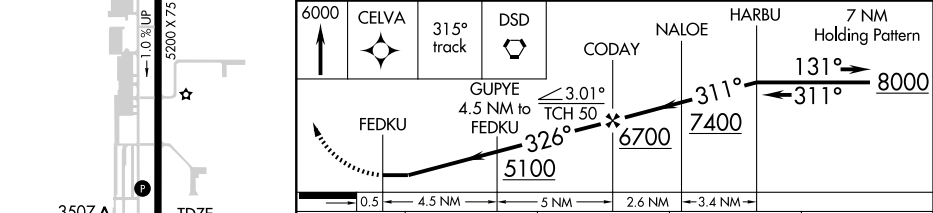
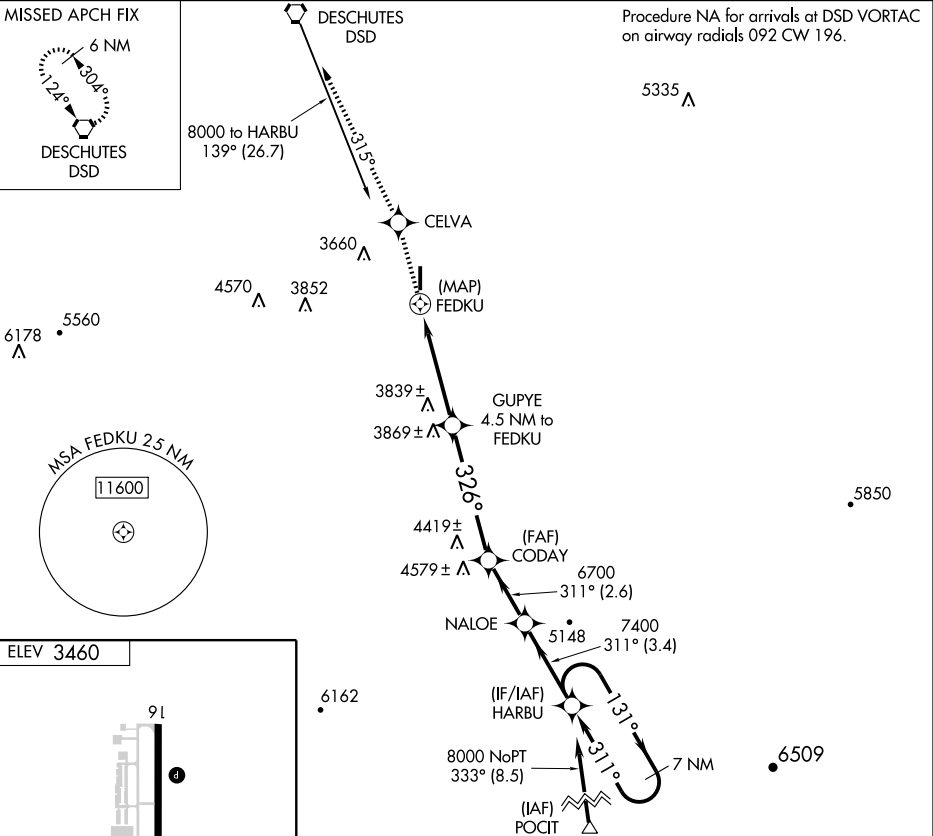
. . . . Climb in DSD VORTAC holding pattern to cross DSD VORTAC at or above the
MEA/MCA for the route of flight.

APP CRS 326°	Rwy Idg 5200 TDZE 3460 Apt Elev 3460
------------------------	--------------------------------------------------------------------------

RNAV (GPS) RWY 34
BEND MUNI (BDN)

 NA	DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, LNAV Cats C/D visibility ¼ mile and Circling Cat C/D visibility ¼ mile.	MISSED APPROACH: Climb to 6000 direct CELVA and via 315° track to DESCHUTES VORTAC and hold
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AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	4100-1 640 (700-1)	4100-1 640 (700-1)	4100-1 640 (700-1)	4100-2 640 (700-2)
CIRCLING	4100-1 640 (700-1)	4100-1 640 (700-1)	4100-1 640 (700-1)	4100-2 640 (700-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

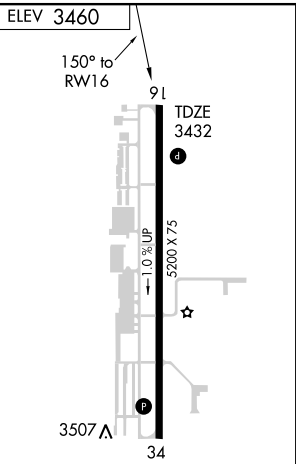
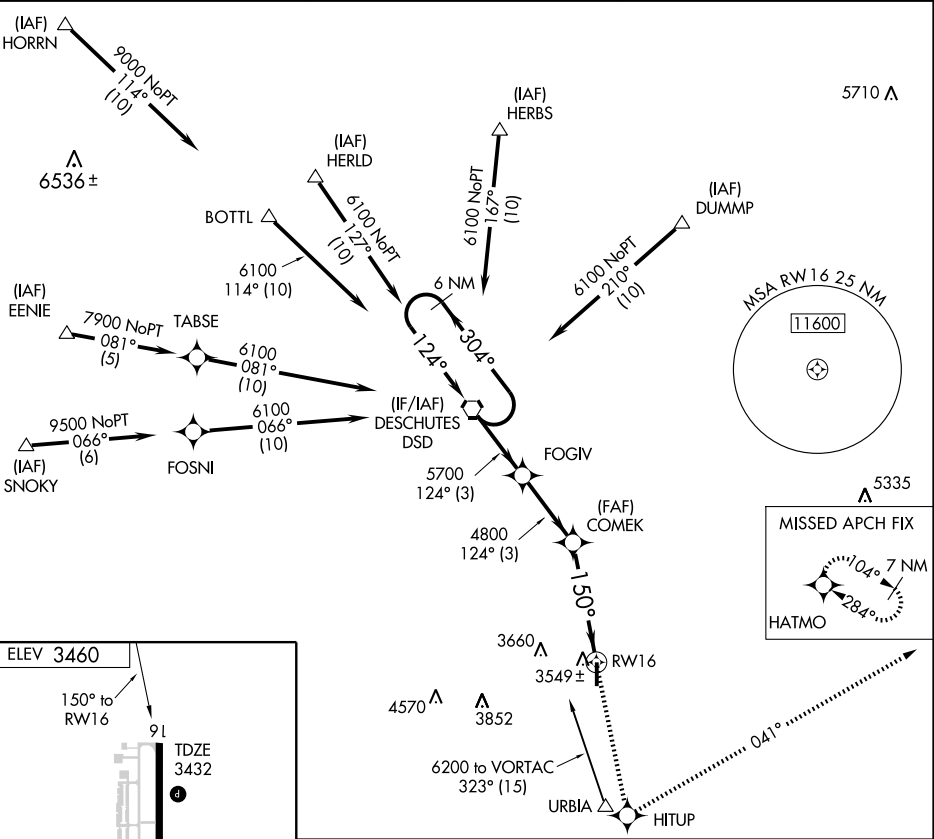
APP CRS	Rwy Idg	5200
150°	TDZE	3432
	Apt Elev	3460

RNAV (GPS) Y RWY 16

BEND MUNI (BDN)

<p>NA</p> <p>DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, and LNAV Cats C/D visibility ¼ mile, and circling Cat C visibility ¼ mile.</p>	<p>MISSED APPROACH: Climb to 7400 direct HITUP and left turn via 041° track to HATMO and hold, continue climb-in-hold to 7400.</p>
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AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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6 NM Holding Pattern	VORTAC	FOGIV	COMEK	7400 HITUP	HATMO
6100	304°	124°	124°	2.91° TCH 50	041° track
5700	4800	150°			
	3 NM	3 NM	4.4 NM		
CATEGORY	A	B	C	D	
LNAV MDA	3800-1	368 (400-1)		3800-1¼	368 (400-1¼)
CIRCLING	3940-1 480 (500-1)	3980-1 520 (600-1)	4000-1½ 540 (600-1½)	4040-2	580 (600-2)

WAAS CH 81906 W16A	APP CRS 161°	Rwy Idg TDZE Apt Elev	5200 3432 3460
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RNAV (GPS) Z RWY 16

BEND MUNI (BDN)

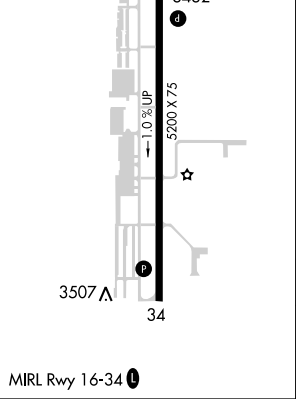
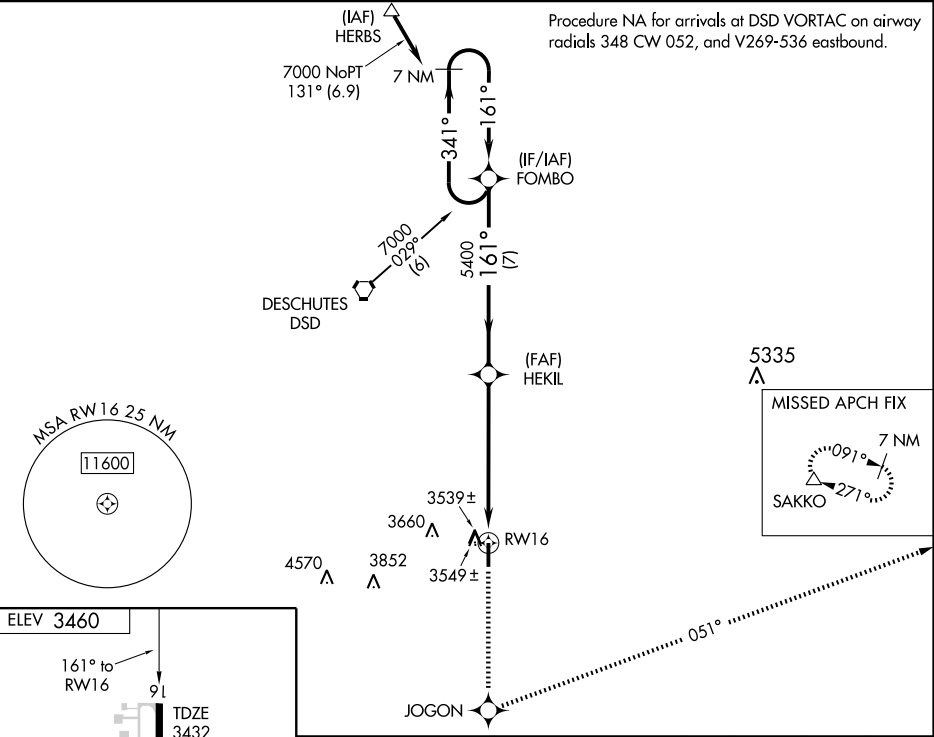
▼

▲NA

When local altimeter setting not received, use Redmond altimeter setting, and increase all DA/MDAs by 80 feet, LPV visibilities ¼ mile all Cats, LNAV/VNAV visibilities ¼ mile all Cats, LNAV Cat D visibility ¼ mile, and circling Cat C visibility ¼ mile. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 42°C (107°F). DME/DME RNP 0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 9500 direct JOGON and left turn via 051° track to SAKKO and hold, continue climb-in-hold to 9500.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF) 0
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7 NM Holding Pattern		FOMBO	9500	JOGON	051° track	SAKKO
7000		341°	161°	5400	*1.2 NM to RWY16	RWY16
GS 3.00° TCH 50		5400	*LNAV only		4.8 NM	1.2 NM
7 NM		B	C	D		
CATEGORY	A	B	C	D		
LPV DA	3682-1		250 (300-1)			
LNAV/VNAV DA	3809-1½		377 (400-1½)			
LNAV MDA	3840-1		408 (400-1)		3840-1¼ 408 (400-1¼)	
CIRCLING	3940-1		3980-1		4000-1½	
	480 (500-1)		520 (600-1)		540 (600-1½)	
					4040-2	
					580 (600-2)	

VORTAC DSD 117.6 Chan 123	APP CRS 136°	Rwy Idg TDZE Apt Elev	5200 3432 3460
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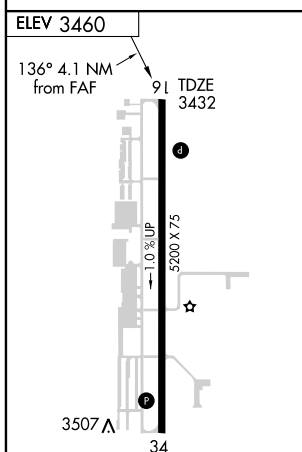
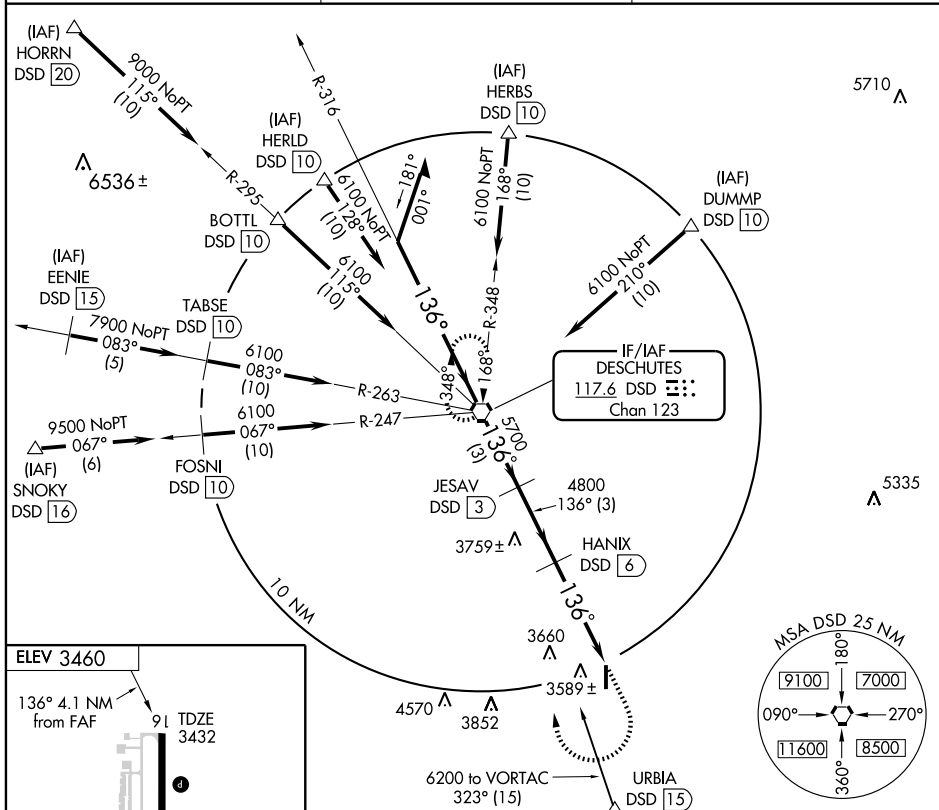
VOR/DME RWY 16

BEND MUNI (BDN)

NA When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, increase S-16 Cat D visibility $\frac{1}{4}$ mile, and circling Cat C visibility $\frac{1}{4}$ mile. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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VORTAC				
Remain within 10 NM				
<div> <div>6100</div> <div>316°</div> <div>136°</div> <div>6100</div> <div>136°</div> <div>5700</div> <div>4800</div> <div>3.09°</div> <div>TCH 50</div> <div>3 NM</div> <div>3 NM</div> <div>4.1 NM</div> </div>				
CATEGORY	A	B	C	D
S-16	3840-1	408 (400-1)	3840-1 $\frac{1}{4}$	408 (400-1 $\frac{1}{4}$)
CIRCLING	3940-1 480 (500-1)	3980-1 520 (600-1)	4000-1 $\frac{1}{2}$ 540 (600-1 $\frac{1}{2}$)	4040-2 580 (600-2)

APP CRS	Rwy Idg	5100
297°	TDZE	4148
	Apt Elev	4148

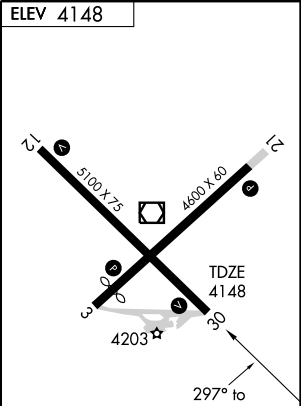
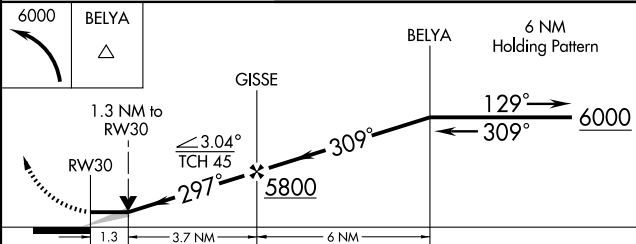
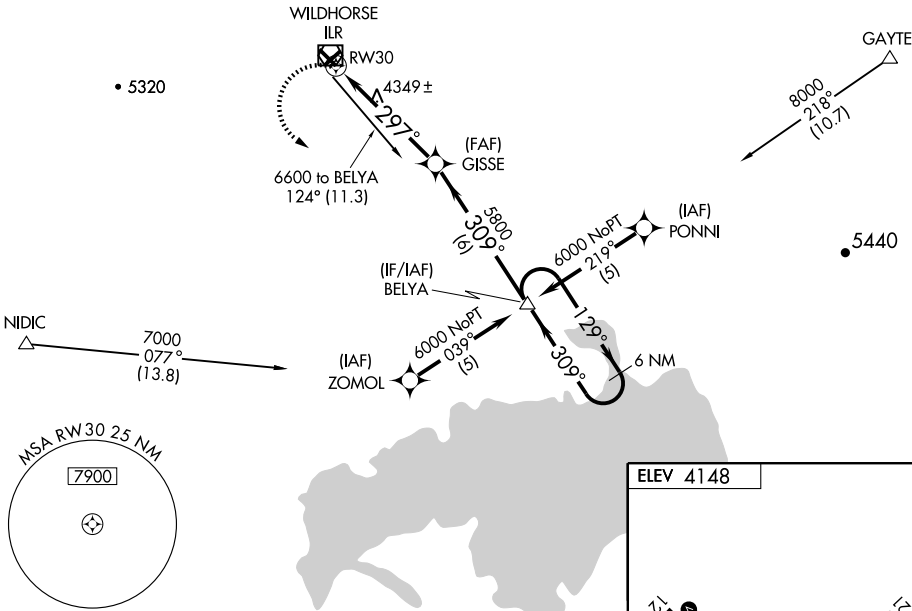
RNAV (GPS) RWY 30

BURNS MUNI (BNO)

NA	DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing left turn to 6000 direct BELYA and hold.
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ASOS 135.575	MC MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF)
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Procedure NA for arrival at NIDIC via V357 southwestbound.
Procedure NA for arrival at GAYTE via V330 eastbound.
NoPT for arrival at ILR VOR/DME via V497 northwestbound.





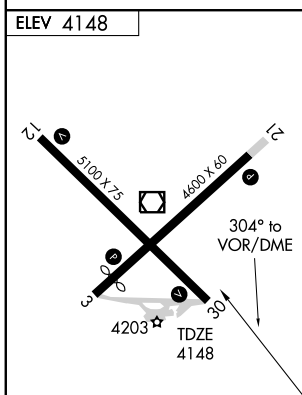
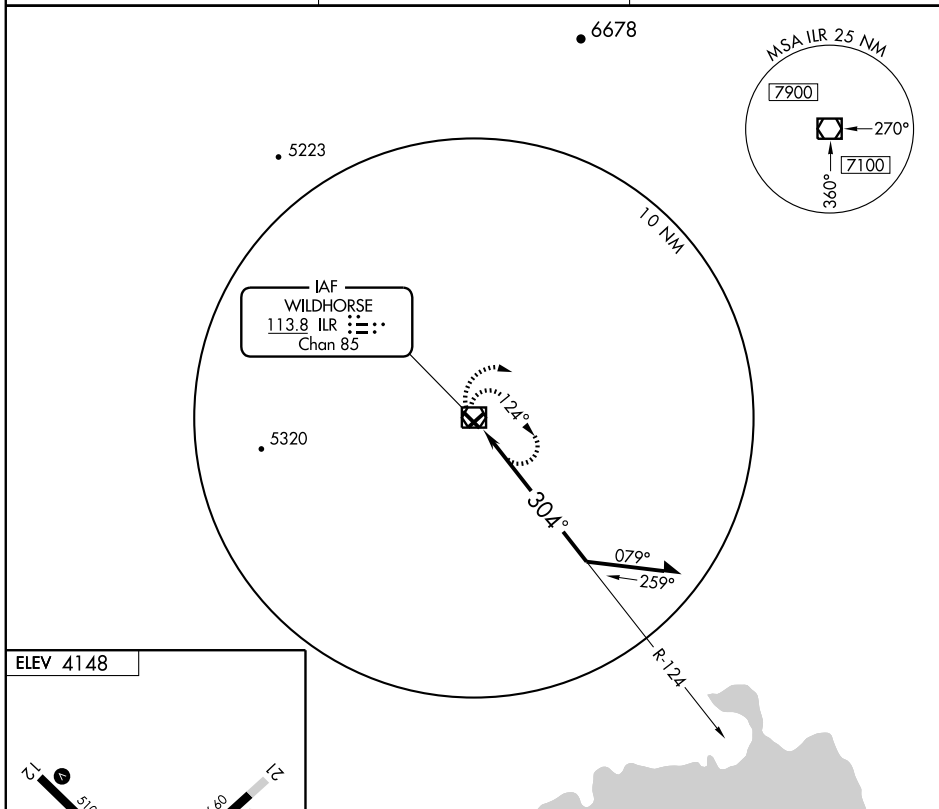
CATEGORY	A	B	C	D
RNAV MDA	4600-1	452 (500-1)	4600-1½ 452 (500-1½)	4600-1½ 452 (500-1½)
CIRCLING	4600-1 452 (500-1)	4680-1 532 (600-1)	4680-1½ 532 (600-1½)	4720-2 572 (600-2)

REIL Rwy 3, 12, 21 and 30
MIRL Rwy 3-21 and 12-30

VOR/DME ILR 113.8 Chan 85	APP CRS 304°	Rwy Idg 5100 TDZE 4148 Apt Elev 4148
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VOR RWY 30
BURNS MUNI (BNO)

 		MISSED APPROACH: Climbing right turn to 8000 in ILR VOR/DME holding pattern.	
ASOS 135.575	MC MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0	




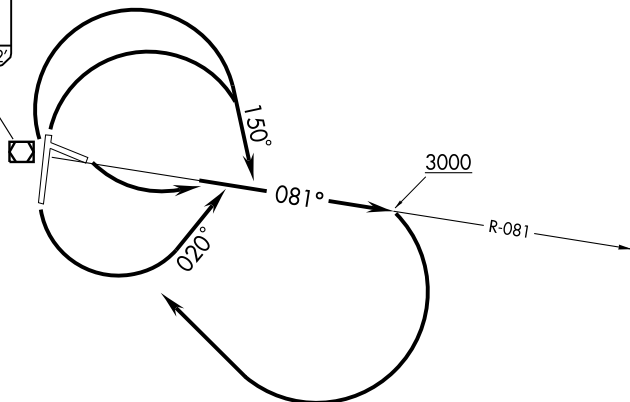
CATEGORY	A	B	C	D
S-30	5500-1¼ 1352 (1400-1¼)	5500-1½ 1352 (1400-1½)	5500-3	1352 (1400-3)
CIRCLING	5500-1¼ 1352 (1400-1¼)	5500-1½ 1352 (1400-1½)	5500-3	1352 (1400-3)

REIL Rwy's 3, 12, 21 and 30 **L**MIRL Rwy 3-21 and 12-30 **L**

CORVALLIS ONE DEPARTURE

AWOS-3 135.775
 CASCADE DEP CON ★
 127.5 348.7
 CTAF 123.0
 SEATTLE CENTER
 125.8

CORVALLIS
 115.4 CVO 
 Chan 101
 N44°29.97'-W123°17.62'



TAKEOFF MINIMUMS

Rwy 9, 200-1 or standard with minimum climb of 245' per NM to 500.

Rwys 17/35, standard.

Rwy 27, standard with minimum climb of 310' per NM to 2300.

TAKEOFF OBSTACLE NOTES

Rwy 9: Multiple trees and railroad beginning 549' from DER, 254' left of centerline, up to 153' AGL/383' MSL.

Multiple trees and railroad beginning 670' from DER, 5' right of centerline, up to 135' AGL/380' MSL.

Rwy 27: OL on GS 409' from DER, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35: Multiple trees beginning 470' from DER, 544' left of centerline, up to 36' AGL/276' MSL.

Tree 2.3 NM from DER, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION





TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081, thence. . .

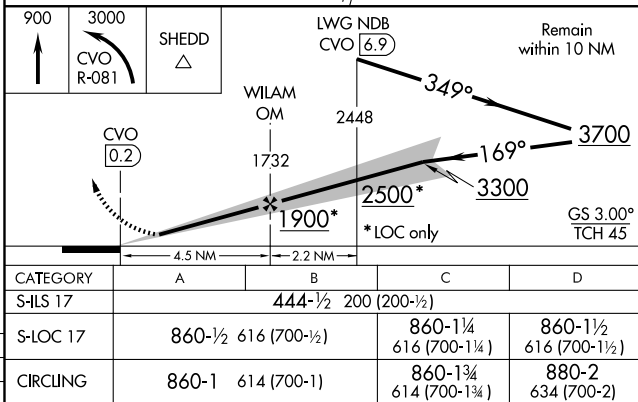
TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081, thence. . .

TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081, thence. . .

.... climbing right turn to 4000 direct CVO VOR/DME. Continue climb on course to MEA for route of flight.

LOST COMMUNICATIONS: If not in contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.

  NA		MALSR 	MISSED APPROACH: Climb to 900 then climbing left turn to 3000 via the CVO R-081 to SHEDD Int and hold.
AWOS-3 135.775	CASCADE APP CON* 127.5 348.7		UNICOM 123.0 (CTAF) 



NDB LWG 225	APP CRS 170°	Rwy Idg TDZE Apt Elev	5900 244 246
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NDB RWY 17

CORVALLIS MUNI (CVO)



NA

MALSR

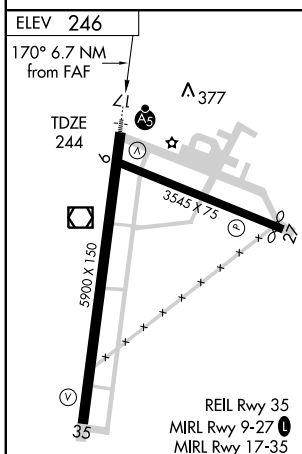
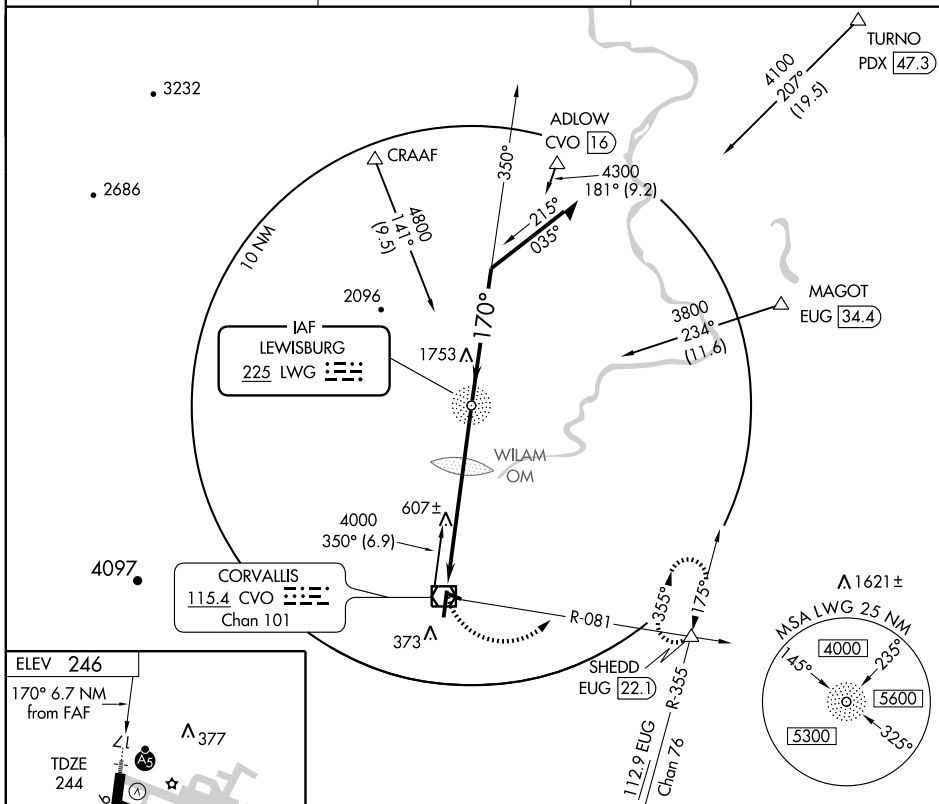


MISSED APPROACH: Climbing left turn to 3000 via the CVO R-081 to SHEDD Int/EUG 22.1 DME and hold.

AWOS-3
135.775

CASCADE APP CON ★
127.5 348.7

UNICOM
123.0 (CTAF)



3000 CVO R-081		SHEDD △	NDB		Remain within 10 NM
3700		350°		3700	
2500		170°		2500	
≤ 3.12° TCH 50		6.7 NM			
CATEGORY	A	B	C	D	
S-17	960-¾ 716 (800-¾)		960-1½ 716 (800-1½)	960-2 716 (800-2)	
CIRCLING	960-1 714 (800-1)		960-2 714 (800-2)	960-2¼ 714 (800-2¼)	

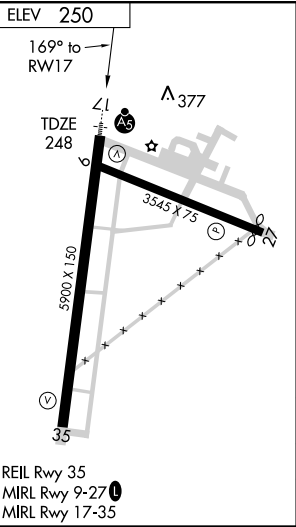
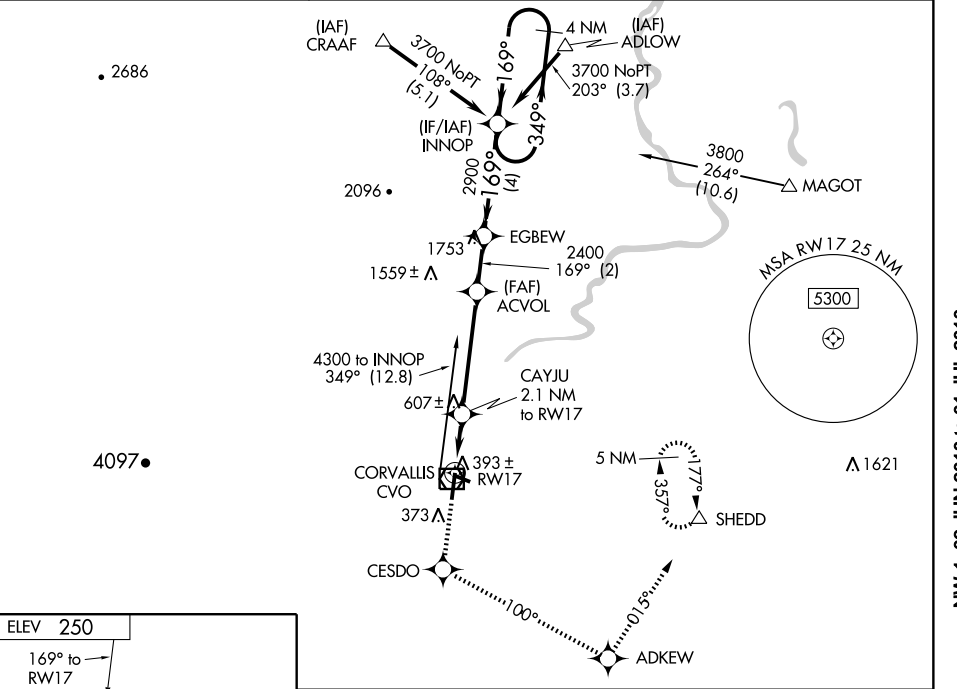
WAAS CH 78311 W17A	APP CRS 169°	Rwy Idg TDZE Apt Elev	5900 248 250
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For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Inoperative table does not apply to LNAV Cats A and B. For inoperative MALSR increase LNAV Cats C and D visibility to 1¼.

MALSR

MISSED APPROACH: Climb to 3000 direct CESDO and via 100° track to ADKEW and via 015° track to SHEDD and hold.

AWOS-3 135.775	CASCADE APP CON * 127.5 348.7	UNICOM 123.0 (CTAF) 0
--------------------------	-----------------------------------------	---------------------------------



3000	CESDO	100° track	ADKEW	015° track	SHEDD	VGSI and RNAV glidepath not coincident.
						4 NM Holding Pattern
* LNAV only	CAYJU 2.1 NM to RW17	ACVOL	EGBEW	349° → 3700	← 169°	GS 3.00° TCH 45
	960*	2400	2900			
	2.1	4.4 NM	2 NM	4 NM		
CATEGORY	A	B	C	D		
LPV DA		582-1	334 (400-1)			
LNAV/VNAV DA		670-1	422 (500-1)			
LNAV MDA		660-1	412 (500-1)			
CIRCLING	720-1	470 (500-1)	720-1½ 470 (500-1½)	900-2 650 (700-2)		

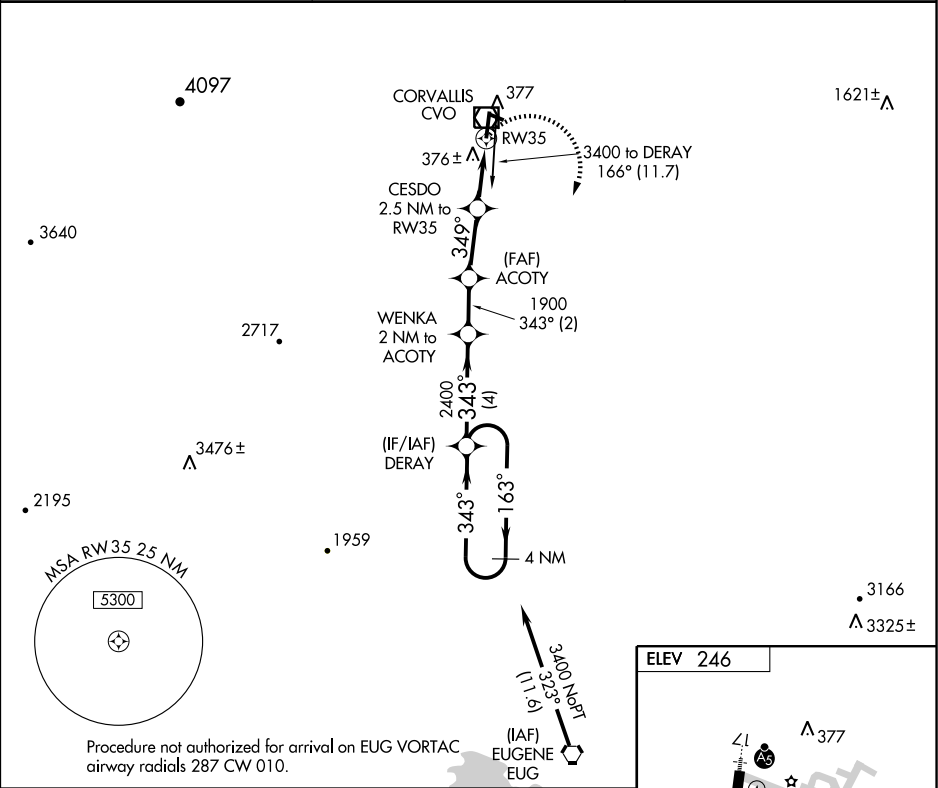
NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5900
349°	TDZE	246
	Apt Elev	246

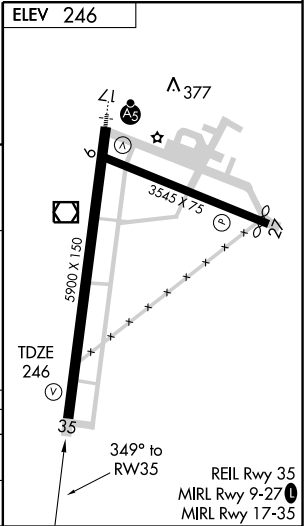
RNAV (GPS) RWY 35
CORVALLIS MUNI (CVO)

NA	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing right turn to 3400 direct DERAY WP and hold.
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
AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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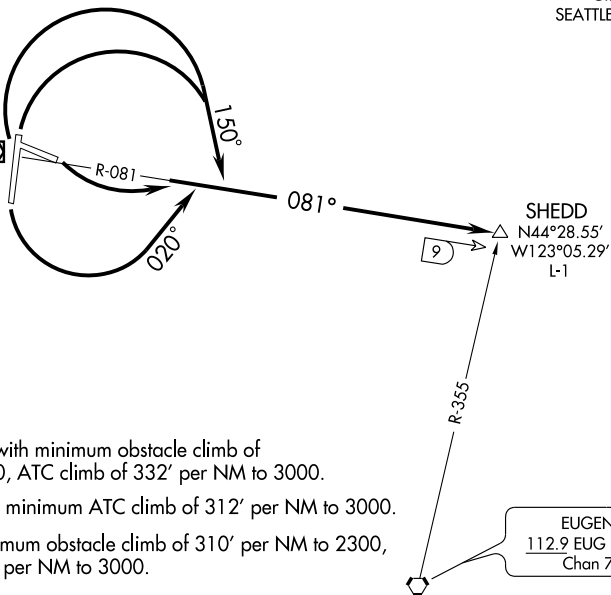


	DERAY		WENKA 2 NM to ACOTY		ACOTY		CESDO 2.5 NM to RW35		RW35	
	4 NM Holding Pattern									
	3400		2400		1900		1100			
	163°		343°		343°		349°		163°	
	343°		343°		343°		349°		163°	
	4 NM		2 NM		2.5 NM		1.4 NM		1.1 NM	
CATEGORY	A		B		C		D			
LNAV MDA	660-1		414 (500-1)		660-1½		414 (500-1½)			
CIRCLING	720-1		474 (500-1)		720-1½		840-2			
					474 (500-1½)		594 (600-2)			



SHEDD ONE DEPARTURE

CORVALLIS
115.4 CVO 
Chan 101
N44°29.97'-W123°17.62'



AWOS-3 135.775
CASCADE DEP CON ★
127.5 348.7
CTAF 123.0
SEATTLE CENTER
125.8

TAKEOFF MINIMUMS

- Rwy 9, 200-1 or standard with minimum obstacle climb of 245' per NM to 500, ATC climb of 332' per NM to 3000.
- Rwys 17/35, standard with minimum ATC climb of 312' per NM to 3000.
- Rwy 27, standard with minimum obstacle climb of 310' per NM to 2300, ATC climb of 312' per NM to 3000.

TAKEOFF OBSTACLE NOTES

- Rwy 9: Multiple trees and railroad beginning 549' from DER, 254' left of centerline, up to 153' AGL/383' MSL.
Multiple trees and railroad beginning 670' from DER, 5' right of centerline, up to 135' AGL/380' MSL.
- Rwy 27: OL on GS 409' from DER, 325' left of centerline, 28' AGL/273' MSL.
- Rwy 35: Multiple trees beginning 470' from DER, 544' left of centerline, up to 36' AGL/276' MSL.
Tree 2.3 NM from DER, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081 to SHEDD INT, thence. . .

TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081 to SHEDD INT, thence. . .

TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081 to SHEDD INT, thence. . .

. . . via assigned route/clearance.

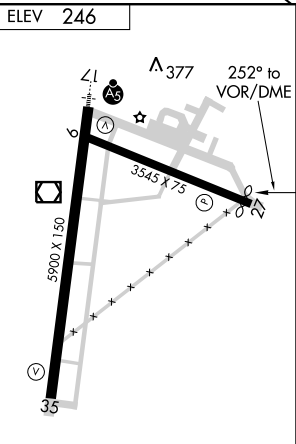
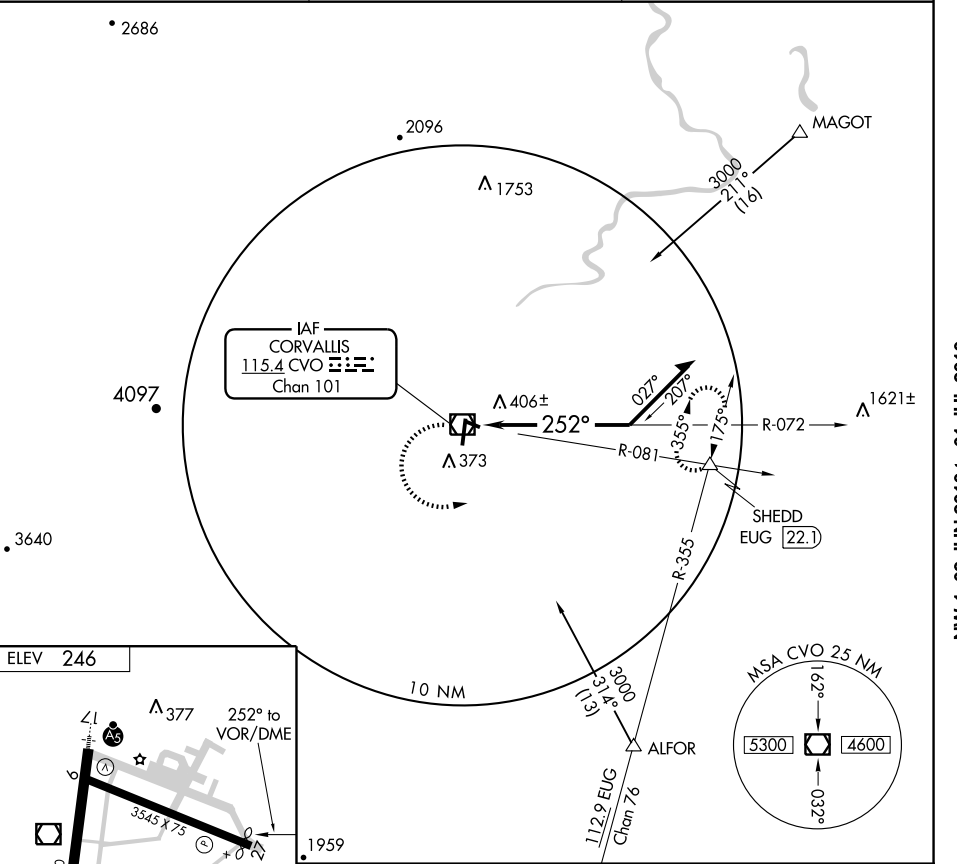
LOST COMMUNICATIONS: If not in contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.

▼

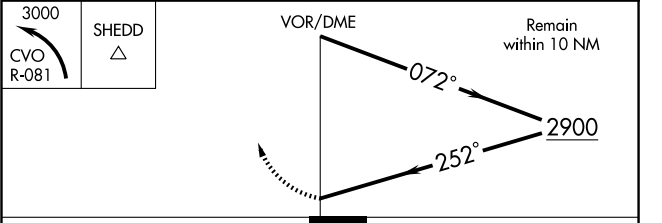
▲

MISSED APPROACH: Climbing left turn to 3000 via CVO
VOR/DME R-081 to SHEDD Int/EUG 22.1 DME and hold.

AWOS-3 135.775	CASCADE APP CON* 127.5 348.7	UNICOM 123.0 (CTAF) 0
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REIL Rwy 35
MIRL Rwy 9-27
MIRL Rwy 17-35



CATEGORY	A	B	C	D
CIRCLING	1400-1¼ 1154 (1200-1¼)	1400-1½ 1154 (1200-1½)	1400-3 1154 (1200-3)	

NW-1. 03 JUN 2010 to 01 JUL 2010

VOR/DME CVO 115.4 Chan 101	APP CRS 177°	Rwy Idg 5900 TDZE 244 Apt Elev 246
------------------------------------------------	------------------------	---------------------------------------------------------------

VOR/DME RWY 17
CORVALLIS MUNI (CVO)

T For inoperative MALS-R, increase S-17 Cat. D to 1 1/4 mile.

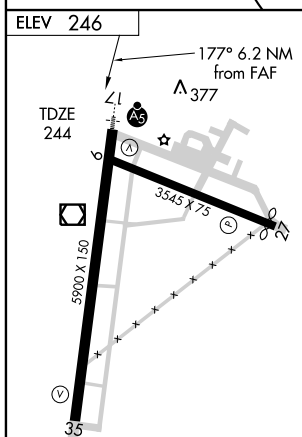
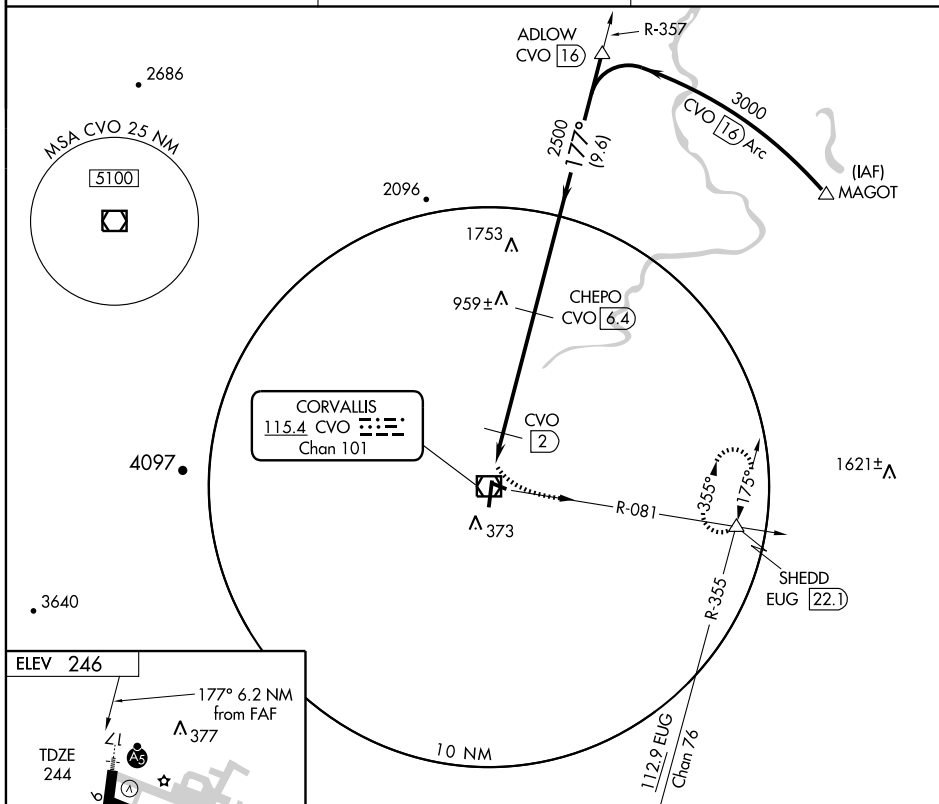
MALSR

MISSED APPROACH: Climbing left turn to 3000 via CVO R-081 to SHEDD Int and hold.

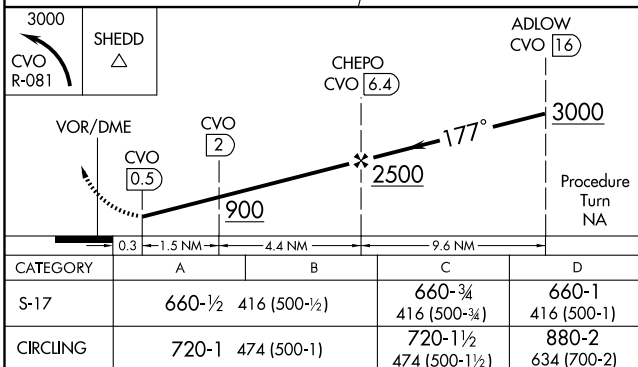
AWOS-3
135.775

CASCADE APP CON ★
127.5 348.7

UNICOM
123.0 (CTAF) **L**



REIL Rwy 35
MIRL Rwy 9-27 **L**
MIRL Rwy 17-35



VOR/DME CVO	APP CRS	Rwy Idg	5900
115.4	342°	TDZE	246
Chan 101		Apt Elev	246

VOR/DME RWY 35

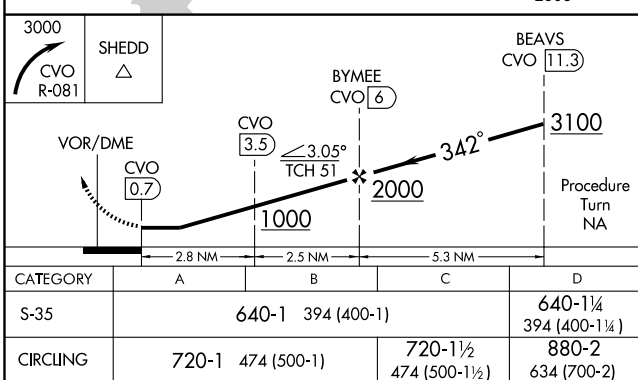
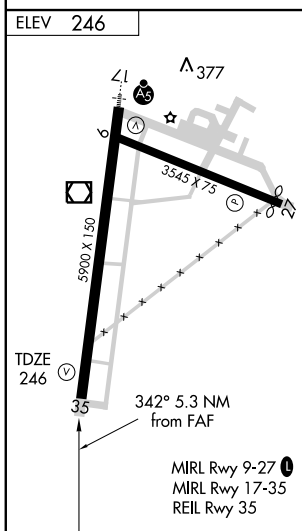
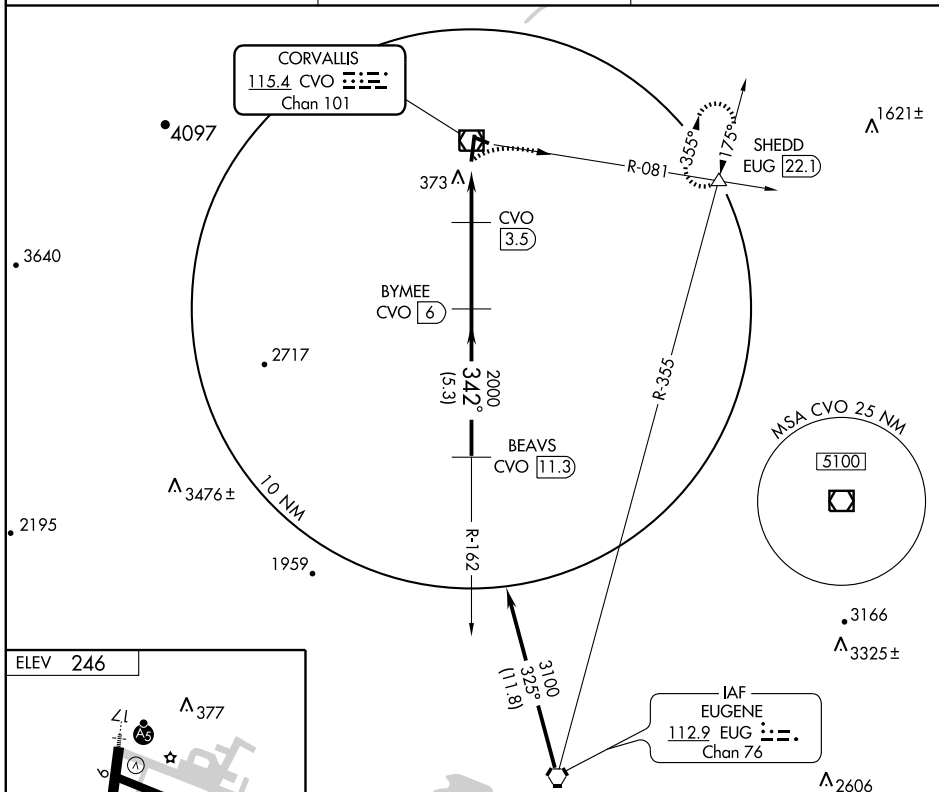
CORVALLIS MUNI (CVO)

MISSED APPROACH: Climbing right turn to 3000
via CVO R-081 to SHEDD Int and hold.

AWOS-3
135.775

CASCADE APP CON ★
127.5 348.7

UNICOM
123.0 (CTAF) ①

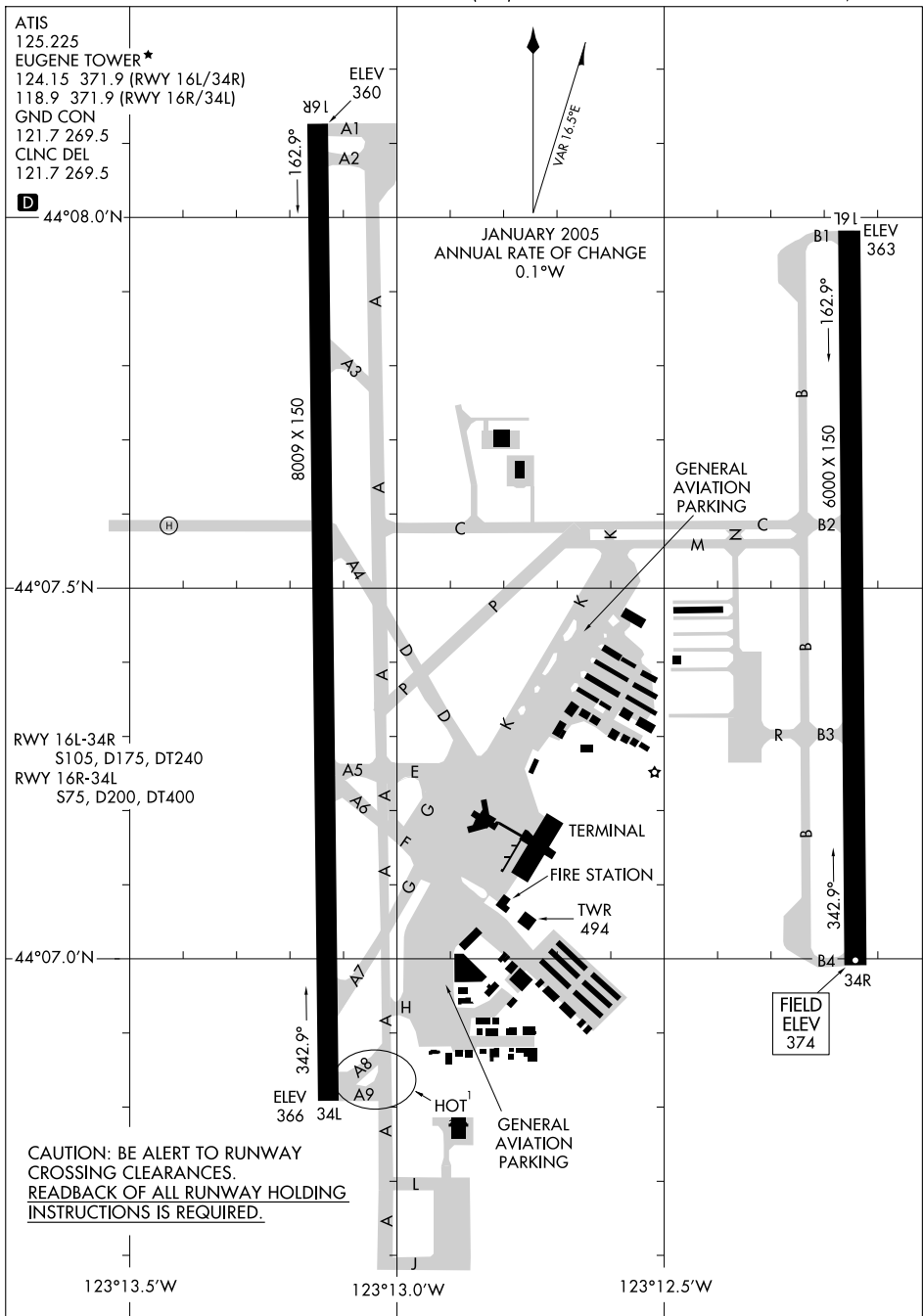


AIRPORT DIAGRAM

AL-140 (FAA)

EUGENE/MAHLON SWEET FIELD (EUG)

EUGENE, OREGON



NW-1, 03 JUN 2010 to 01 JUL 2010

EUGENE SEVEN DEPARTURE

SL-140 (FAA)

EUGENE/MAHLON SWEET FIELD (EUG)

EUGENE, OREGON

ATIS 125.225

GND CON

121.7 269.5

EUGENE TOWER ★

118.9 (CTAF) 371.9 (Rwy 16R-34L)

124.15 371.9 (Rwy 16L-34R)

CASCADE DEP CON

119.6 348.7

NEWPORT
117.1 ONP
Chan 118
N44°34.52' - W124°03.64'
L-1, H-1

CORVALLIS
115.4 CVO
Chan 101
N44°29.97' - W123°17.62'
L-1

NEWBERG
117.4 UBG
Chan 121
N45°21.19' - W122°58.69'
L-1, H-1

BATTLEGROUND
116.6 BTG
Chan 113
N45°44.87' - W122°35.49'
L-1, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 16R: Tree 1992' from DER, 832' left of centerline, 50' AGL/419' MSL.

Rwy 16L: Multiple trees and power poles beginning 872' from DER, 35' right of centerline, up to 50' AGL/437' MSL.

Multiple trees and power poles beginning 890' from DER, 77' left of centerline, up to 50' AGL/433' MSL.

Rwy 34R: Multiple trees beginning 2869' from DER, 186' right of centerline, up to 50' AGL/447' MSL.
Tree 2535' from DER, 652' left of centerline, 50' AGL/428' MSL.

NORTH BEND
112.1 OTH
Chan 58
N43°24.93' - W124°10.11'
L-1

EUGENE
112.9 EUG
Chan 76
N44°07.25' - W123°13.37'
L-1, H-1

DESCHUTES
117.6 DSD
Chan 123
N44°15.17' - W121°18.21'
L-13, H-1

ROSEBURG
108.2 RBG
Chan 19
N43°10.95' - W123°21.13'
L-1

ROGUE VALLEY
113.6 OED
Chan 83
N42°28.77' - W122°54.78'
L-2, H-3

KLAMATH FALLS
115.9 LMT
Chan 106
N42°09.19' - W121°43.65'
L-2, H-3

TAKE-OFF MINIMUMS

Rwy 16L/16R: Standard with minimum climb of 305' per NM to 6000.

Rwy 34L/34R: Standard with minimum climb of 320' per NM to 6000.

NOTE: Aircraft taxiing beyond Rwy 16R departure end 500' left of centerline.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L and 16R: Climb via heading 160° (or ATC assigned heading) for vectors to assigned route/fix

TAKE-OFF RUNWAYS 34L and 34R: Climb via heading 340° (or ATC assigned heading) for vectors to assigned route/fix

. . . . maintain 9000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If not in contact with ATC after reaching 3000', continue climb to assigned altitude direct EUG VORTAC, climb in EUG VORTAC holding pattern (hold N, RT, 175° inbound) to cross EUG VORTAC at or above MEA before proceeding enroute.

APP CRS	Rwy Idg	8009
160°	TDZE	363
	Apt Elev	374

NA

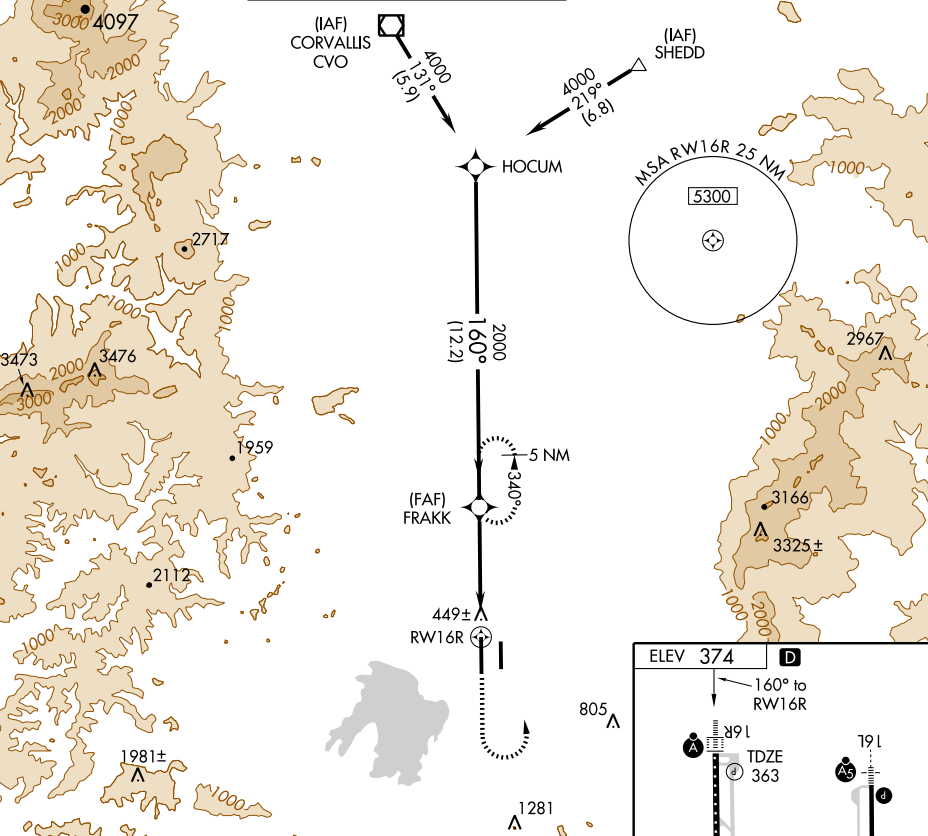
Inoperative table does not apply to S-16R Cat D.

ALSIF-2

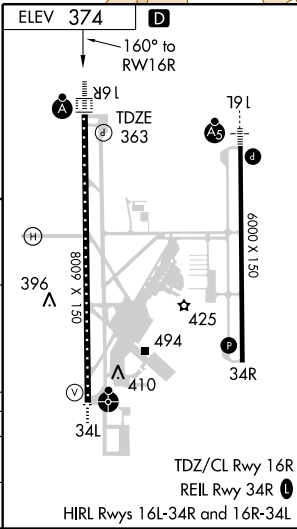
MISSED APPROACH:

Climb to 1000 then climbing left turn to 2500 direct FRAKK WP and hold.

ATIS	CASCADE APP CON	EUGENE TOWER★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95





HOCUM				
4000				
Procedure Turn NA				
160°				
2000				
12.2 NM				
3.7 NM				
0.9				
CATEGORY	A	B	C	D
S-16R	700/24 337 (400-½)			700/50 337 (400-1)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-½)	940-2 566 (600-2)



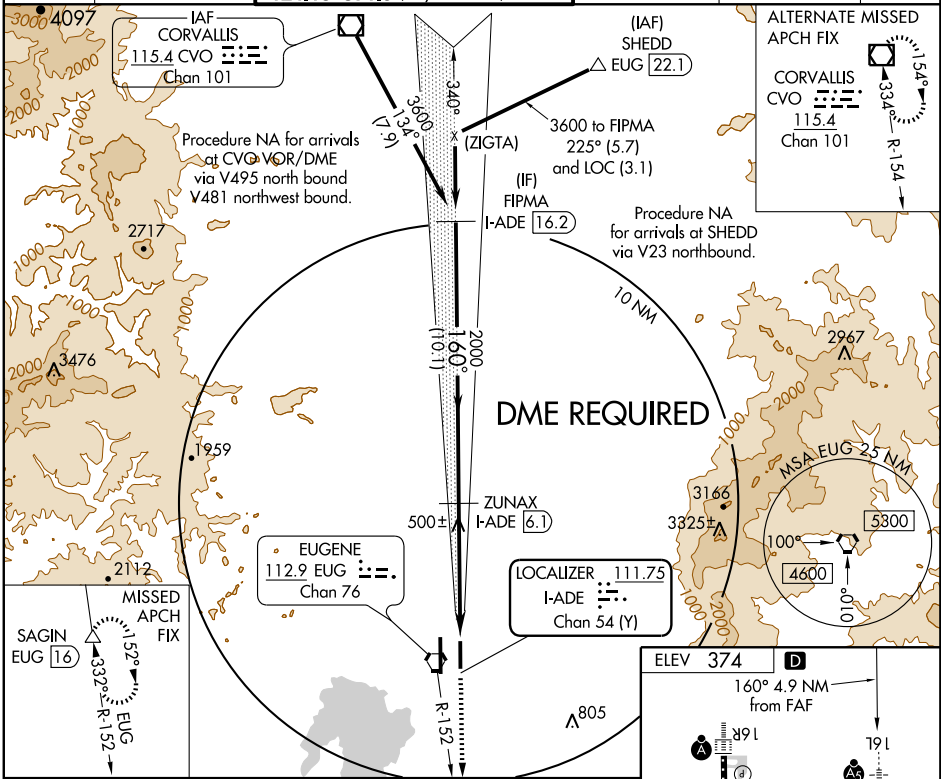
LOC/DME F-ADE 111.75 Chan 54 (Y)	APP CRS 160°	Rwy Idg 6000 TDZE 369 Apt Elev 374
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ILS or LOC/DME RWY 16L

EUGENE/MAHLON SWEET FIELD (EUG)

	<p>If local altimeter setting not received, use Corvallis altimeter setting and increase all DAs 70 feet, and all MDAs 80 feet. VDP NA when using Corvallis altimeter setting.</p>	<p>MALSR</p> 	<p>MISSED APPROACH: Climb to 5200 via heading 160° and EUG VORTAC R-152 to SAGIN/EUG 16 DME and hold, continue climb-in-hold to 5200.</p>
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ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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VGS1 and ILS glidepath not coincident.
Use I-ADE DME when on the localizer course.

FIPMA
I-ADE [16.2]

ZUNAX
I-ADE [6.1]

EUG
R-152
I-DE [1.2]

SAGIN
△

3600

160°

2000

Procedure Turn NA

hdg 160°

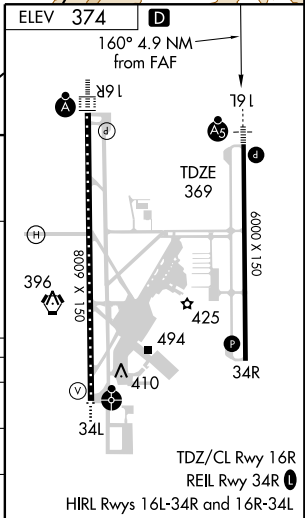
5200

10.1 NM

3.7 NM

1.2

CATEGORY	A	B	C	D
S-ILS 16L		569- $\frac{1}{2}$	200 (200- $\frac{1}{2}$)	
S-LOC 16L	800- $\frac{1}{2}$	431 (500- $\frac{1}{2}$)	800- $\frac{3}{4}$ 431 (500- $\frac{3}{4}$)	800-1 431 (500-1)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1 $\frac{1}{2}$ 466 (500- $\frac{1}{2}$)	940-2 566 (600-2)



LOC/DME F-EUG <u>110.1</u> Chan 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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ILS or LOC/DME Z RWY 16R

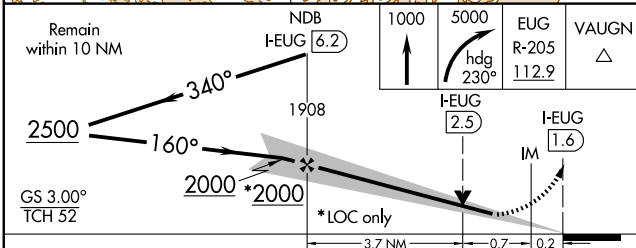
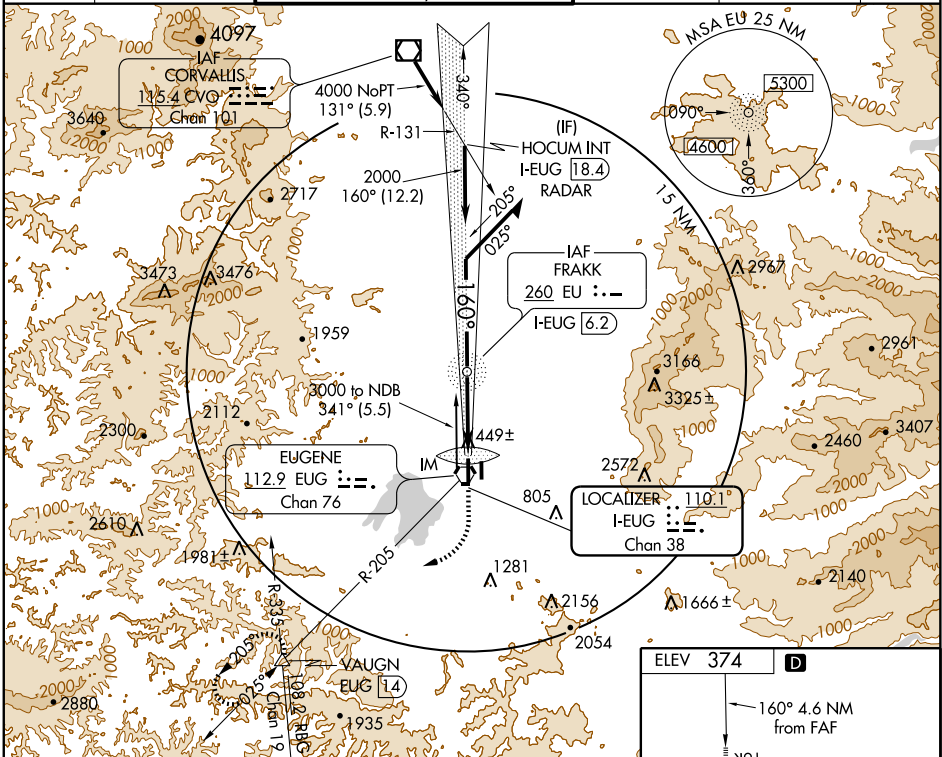
EUGENE/MAHLON SWEET FIELD (EUG)

T	For inoperative ALSF-2: increase S-LOC 16R Cat D visibility to RVR 5000.
A	DME required.

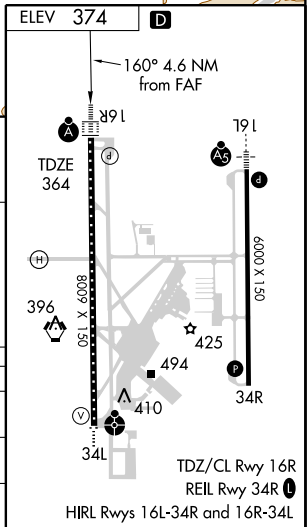
ALSF-2

MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 16R	564/18 200 (200-½)			
S-LOC 16R	700/24 336 (400-½)			700/40 336 (400-¾)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)

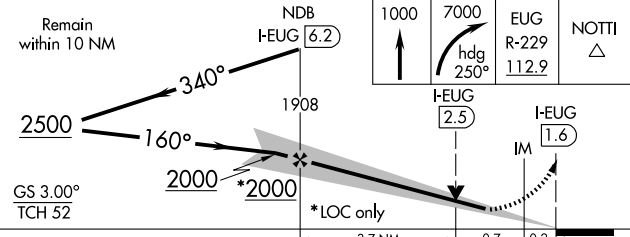
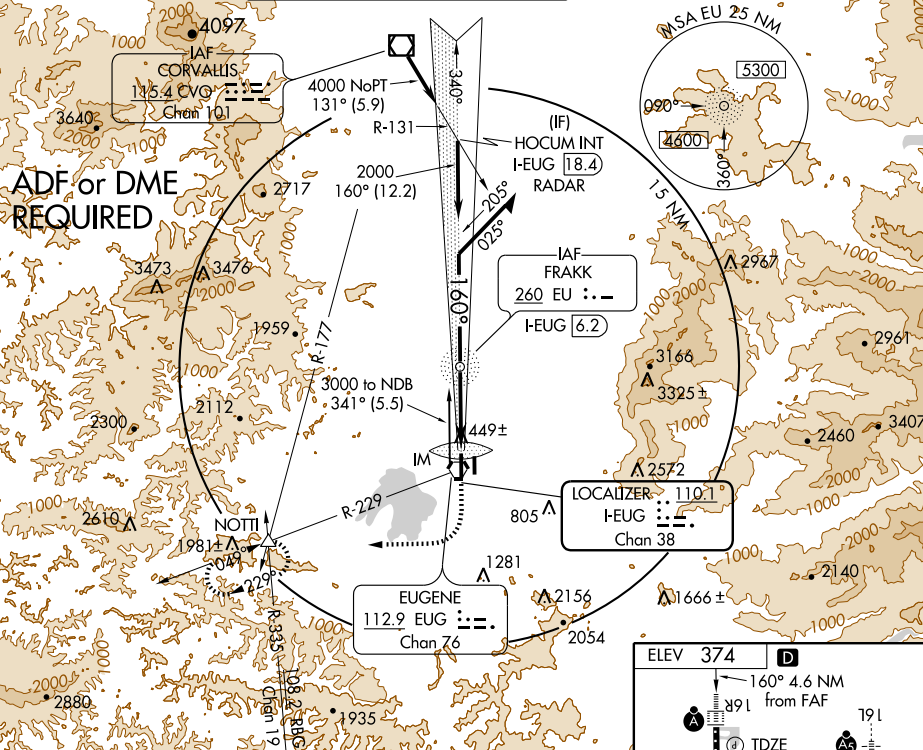


LOC/DME I-EUG	APP CRS	Rwy Idg	8009
110.1	160°	TDZE	364
Chan 38		Apt Elev	374

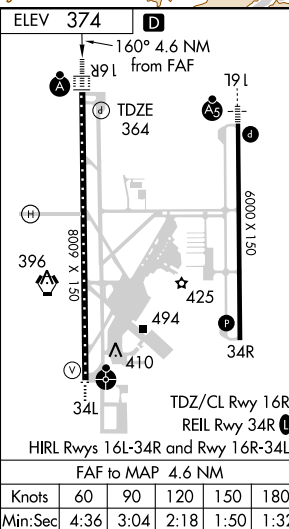
For inoperative ALSF-2: increase S-LOC 16R Cat D visibility to RVR 5000.

MISSED APPROACH: Climb to 1000 then climbing right turn to 7000 via heading 250° and EUG R-229 to NOTTI INT and hold, continue climb-in-hold to 7000.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



CATEGORY	A	B	C	D
S-ILS 16R	564/18 200 (200-½)			
S-LOC 16R	700/24 336 (400-½)			700/40 336 (400-¾)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)



LOC/DME F-EUG <u>110.1</u> Chan 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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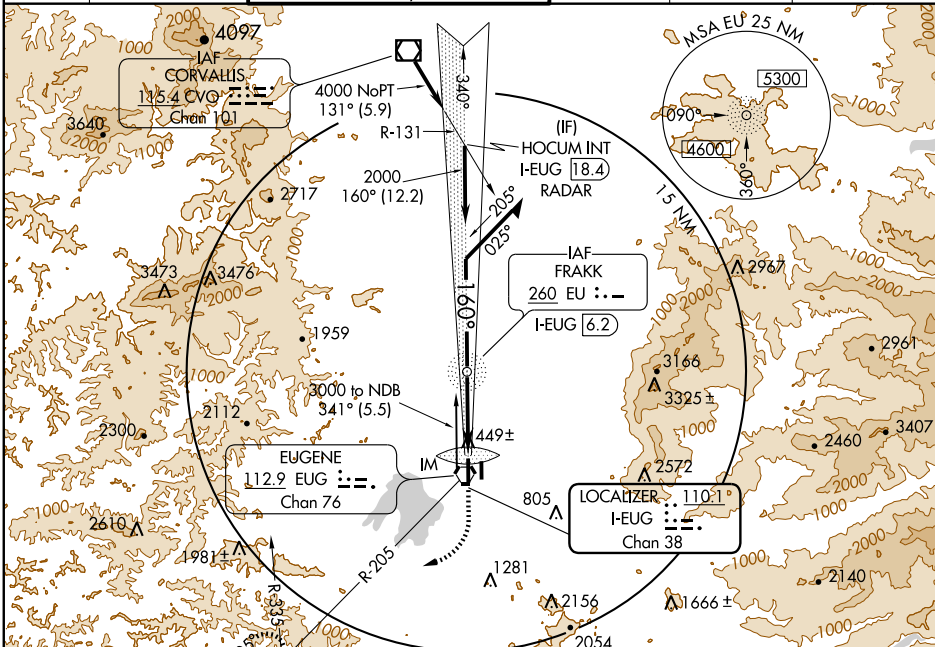
ILS RWY 16R (CAT II)
EUGENE/MAHLON SWEET FIELD (EUG)

T Cat II minimums not authorized when control tower closed.
A DME required.



MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 1 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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Remain within 10 NM

NDB
EUG 6.2

1000 5000
↑ hdg 230°

EUG
R-205
112.9

VAUGHN
△

2500 340° 1908 160°

2000

GS 3.00°
TCH 52

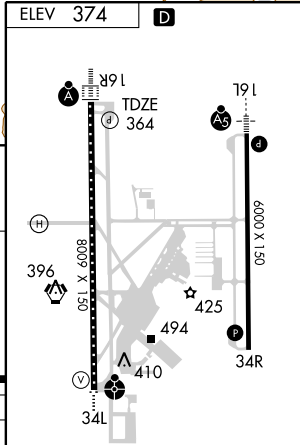
DH
RA108

IM

364 MSL

4.4 NM 983' 950'

CATEGORY	A	B	C	D
S-ILS 16R	RA 108/12 100 DA 464			



CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 16R
REIL Rwy 34R **L**
HIRL Rwys 16L-34R and 16R-34L

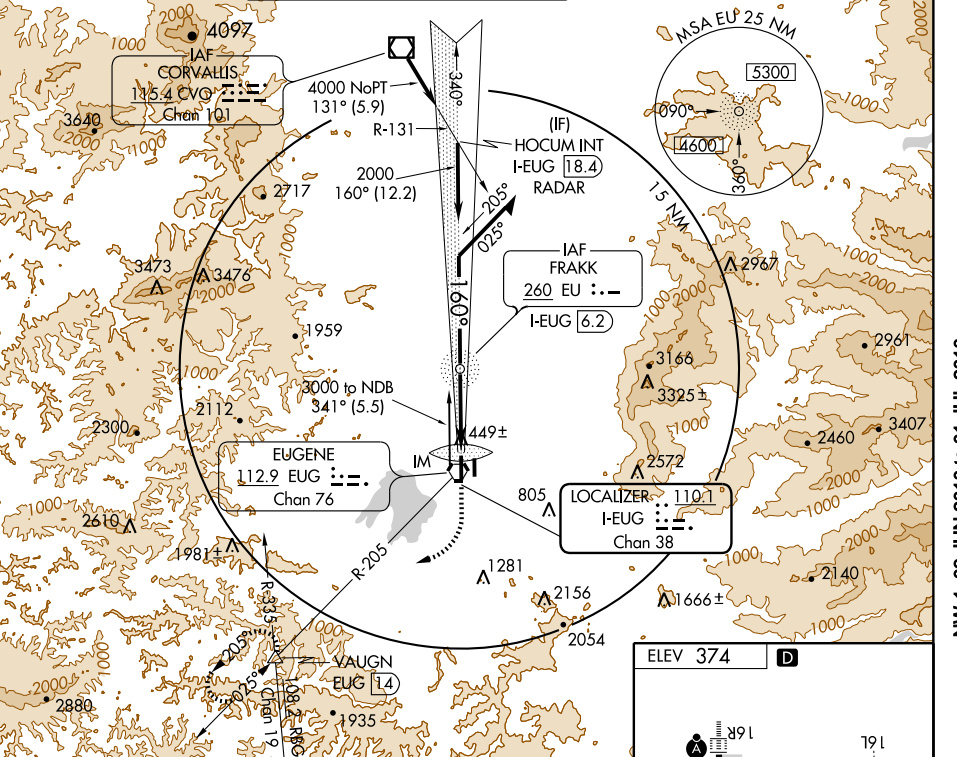
▼ Cat III minimums not authorized when control tower closed.

▲ DME required.

ALSF-2

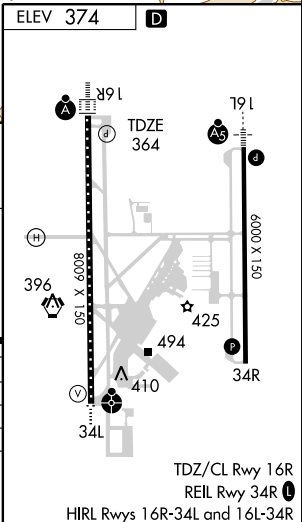
MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGHN EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS	CASCADE APP CON	EUGENE TOWER★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95

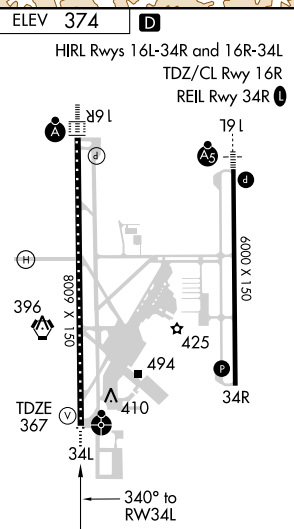
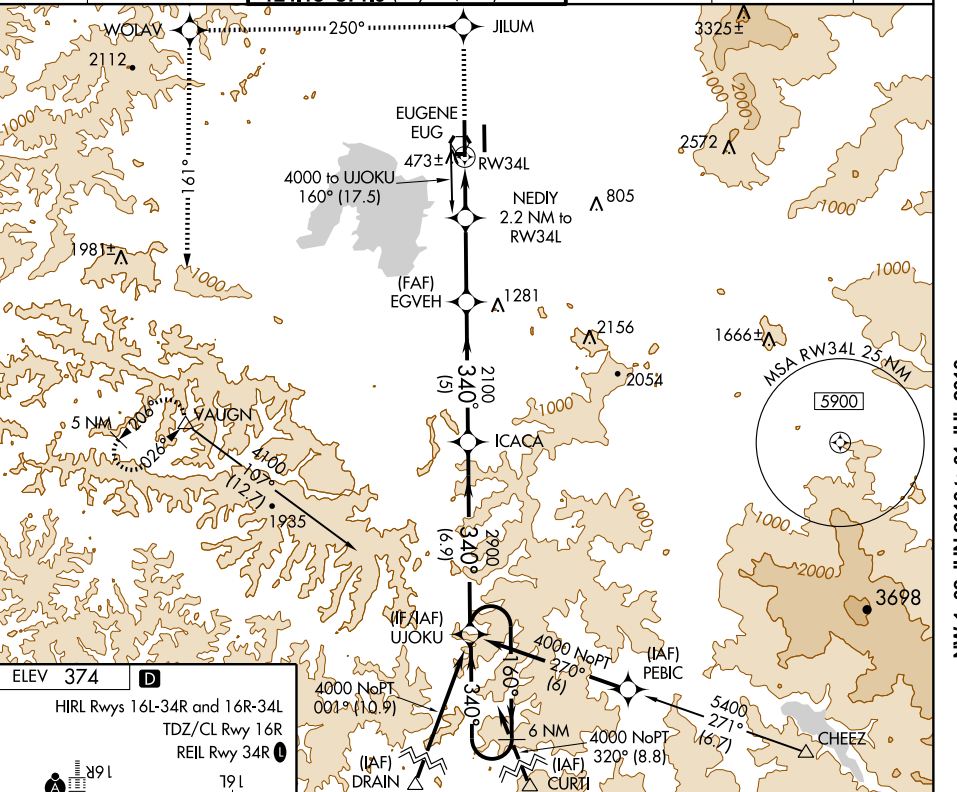


Remain within 10 NM	NDB I-EUG [6.2]	1000	5000	EUG R-205	VAUGHN
2500	340°	1908	hdg 230°	112.9	△
2000	160°	IM 459			
GS 3.00° TCH 52		364 MSL			
		4.4 NM	930'	950'	
CATEGORY	A	B	C	D	
S-ILS 16R		CAT IIIa	RVR 07		
S-ILS 16R		CAT IIIb	RVR 06		
S-ILS 16R		CAT IIIc	NA		

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



<div><div>▼</div><div>Inoperative table does not apply to LPV and LNAV/VNAV. Baro-VNAV NA below -15°C (5°F). DME/DME RNP-0.3 NA.</div></div>		<div><div>ODALS</div><div></div></div>	<div>MISSED APPROACH: Climb to 4000 direct JILUM and via 250° track to WOLAV and 161° track to VAUGHN and hold.</div>		
<div>ATIS 125.225</div>	<div>CASCADE APP CON 119.6 348.7</div>	<div>EUGENE TOWER★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)</div>	<div>GND CON 121.7 269.5</div>	<div>CLNC DEL 121.7 269.5</div>	<div>UNICOM 122.95</div>



<div>4000 JILUM 250° track WOLAV 161° track VAUGHN UJOKU 6 NM Holding Pattern</div>		<div>ICACA</div>		<div>6 NM Holding Pattern</div>	
<div>*RNAV only RW 34L 1.1 NM to RW34L NEDIY 2.2 NM to RW34L EGVEH 1120 2100</div>		<div>340° 2900 160° 4000</div>		<div>GS 3.00° TCH 54</div>	
<div>1.1 NM 1.1 NM 3 NM 5 NM 6.9 NM</div>		<div>340° 2900 160° 4000</div>		<div>GS 3.00° TCH 54</div>	
CATEGORY	A	B	C	D	
LPV DA	617/40		250 (300-¾)		
LNAV/ VNAV DA	744/60		377 (400-1¼)		
LNAV MDA	760/40		393 (400-¾)		760/60 393 (400-1¼)
CIRCLING	800-1¼ 426 (500-1¼)	840-1¼ 466 (500-1¼)	840-1½ 466 (500-1½)	940-2 566 (600-2)	

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS CH 81900 W34B	APP CRS 340°	Rwy Idg TDZE Apt Elev	6000 374 374
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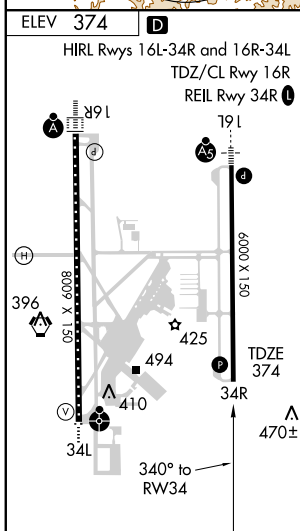
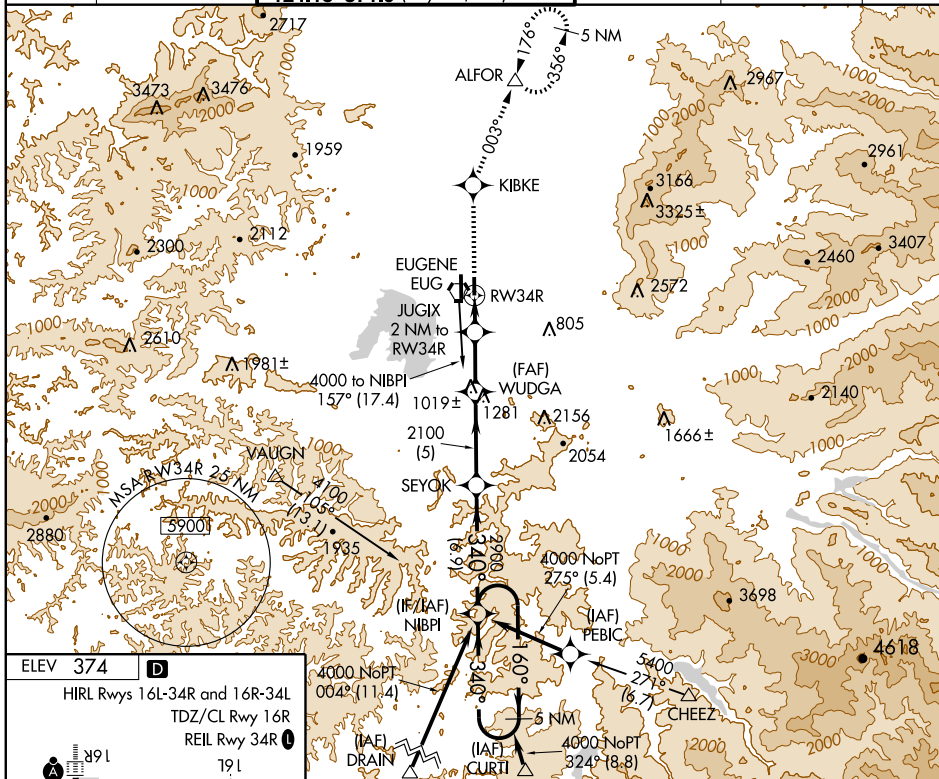
RNAV (GPS) RWY 34R

EUGENE/ MAHLON SWEET FIELD (EUG)

▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
▲ DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct KIBKE and via track 003° to ALFOR and hold.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



3000	KIBKE	trk 003°	ALFOR	NIBPI	5 NM Holding Pattern
*LNAV only	JUGIX	WUDGA	SEYOK	NIBPI	160° → 4000
	*1.1 2 NM to RWY 34R				← 340°
					GS 3.00° TCH 50
	1.1 NM	0.9 NM	3.2 NM	5 NM	6.9 NM
CATEGORY	A	B	C	D	
LPV DA		658-1	284 (300-1)		
LNAV/ VNAV		796-1½	422 (500-1½)		
LNAV MDA		760-1	386 (400-1)		760-1½ 386 (400-1½)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)		940-2 566 (600-2)

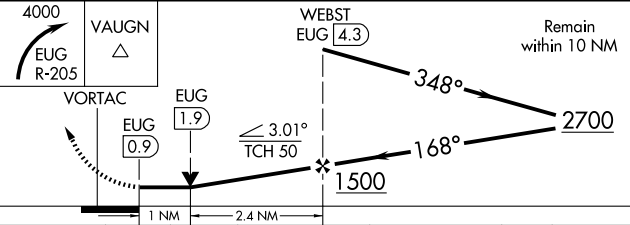
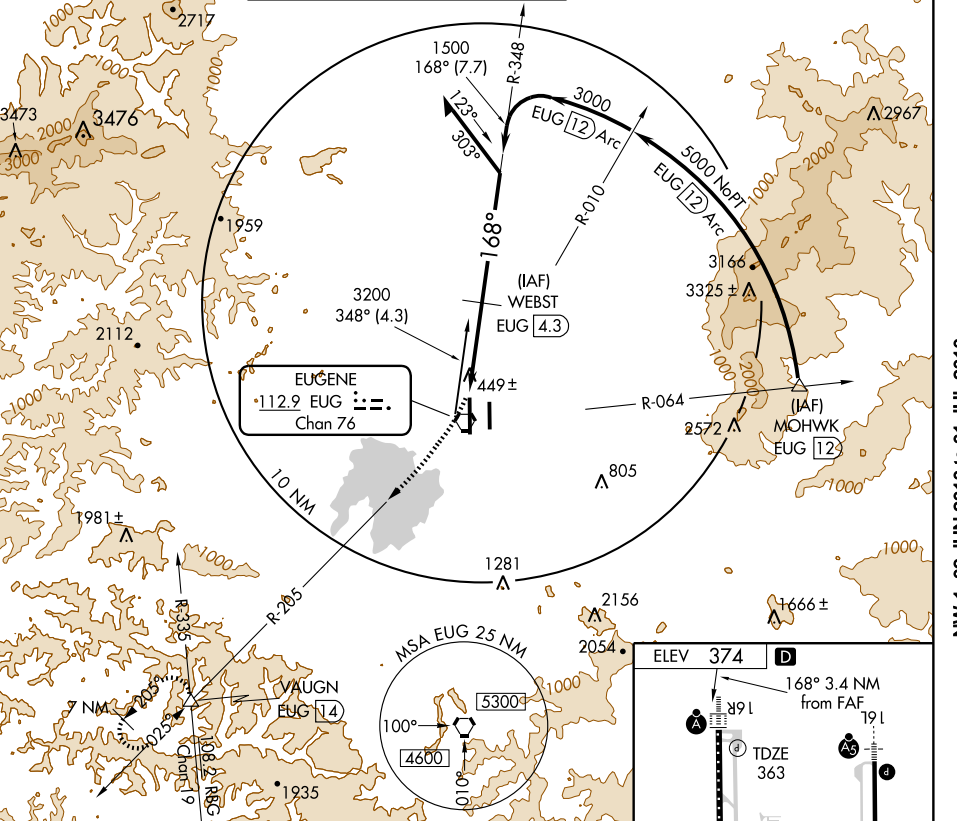
V

For inoperative MALS, increase S-16R Cat D visibility to RVR 6000.

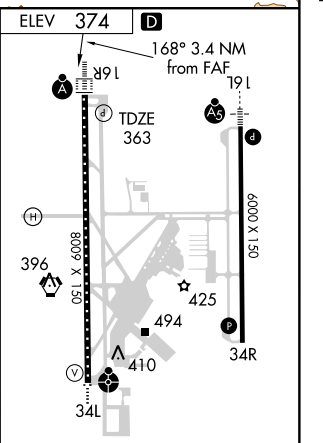
ALSF-2

MISSED APPROACH: Climbing right turn to 4000 via EUG R-205 to VAUGN/14 DME and hold.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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CATEGORY	A	B	C	D
S-16R	720/24 357 (400-½)			720/50 357 (400-1)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-½)	940-2 566 (600-2)



TDZ/CL Rwy 16R
REIL Rwy 34R
HIRL Rwy 16L-34R and Rwy 16R-34L

VORTAC EUG 112.9 Chan 76	APP CRS 332°	Rwy Idg TDZE Apt Elev	8009 367 374
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VOR/DME or TACAN RWY 34L

EUGENE/MAHLON SWEET FIELD (EUG)

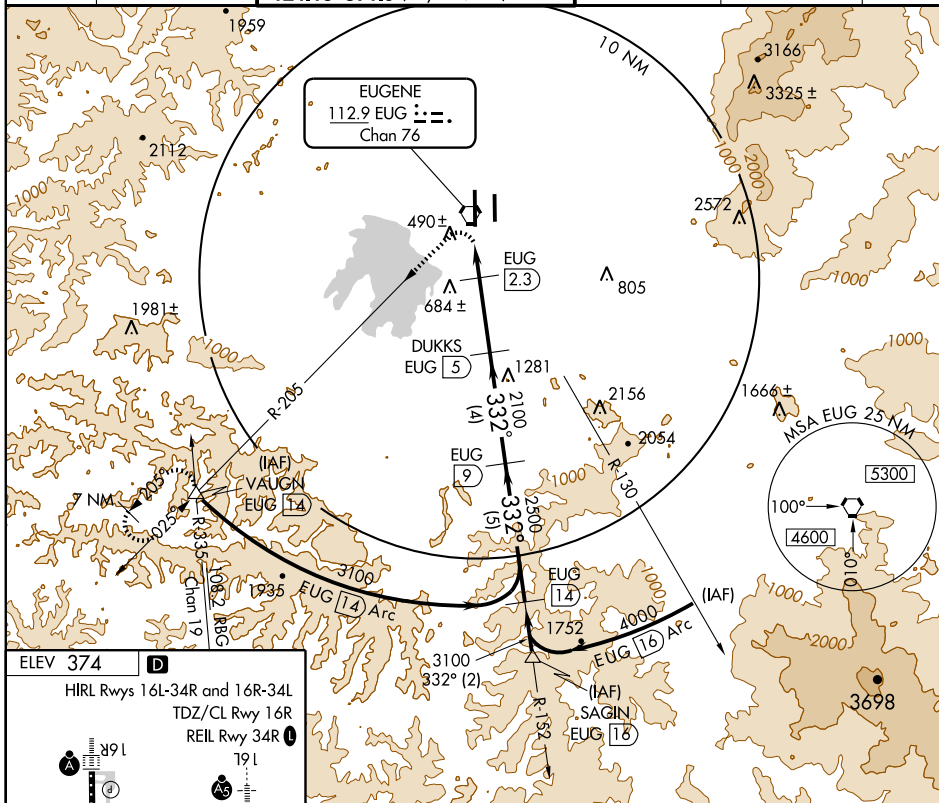


ODALS



MISSED APPROACH: Climbing left turn to 4000 via EUG R-205 to VAUGN/14 DME and hold.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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NW-1. 03 JUN 2010 to 01 JUL 2010

Diagram illustrating the HIRL (High Intensity Runway Lights) and REIL (Runway End Identifier Lights) systems for Runway 34R. The diagram shows the runway layout, including the HIRL Rwy 34R, REIL Rwy 34R, and the TDZE (Touchdown Zone) light system. The diagram also shows the runway width (6000 X 150) and the distance from the FAF (Final Approach Fix) to the runway end (332° 4.5 NM).

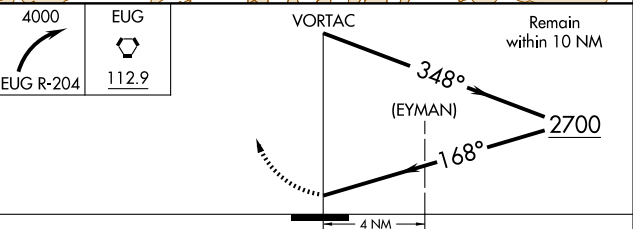
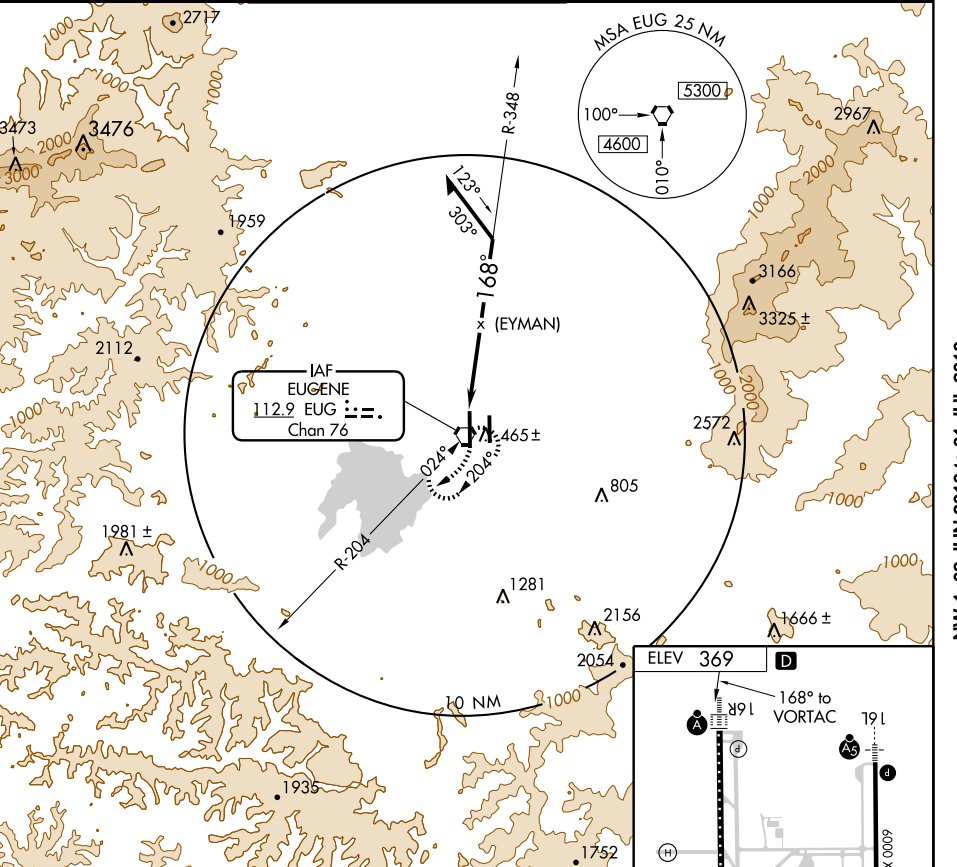
<div>4000</div> <div>EUG R-205</div>		<div>VAUGN</div> <div>△</div>		<div>VGSI and descent angles not coincident</div>				<div>EUG</div> <div>14</div>	
<div>VORTAC</div> <div>EUG 1</div>		<div>EUG 2.3</div> <div>≤ 3.49° TCH 54</div>		<div>DUKKS</div> <div>EUG 5</div>		<div>EUG 9</div>		<div>EUG</div> <div>3100</div>	
<div>0.5</div>		<div>1.3 NM</div>		<div>2.7 NM</div>		<div>4 NM</div>		<div>5 NM</div>	
CATEGORY		A		B		C		D	
S-34L		760/40 393 (400-¾)						760/60 393 (400-1¼)	
CIRCLING		800-1 426 (500-1)		840-1 466 (500-1)		840-1½ 466 (500-1½)		940-2 566 (600-2)	

▼

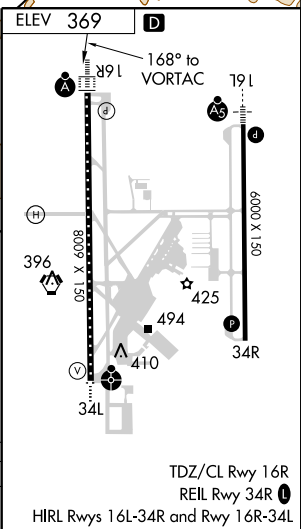
▲

MISSED APPROACH: Climbing right turn to 4000 via EUG R-204, then direct EUG VORTAC and hold.

ATIS	CASCADE APP CON	EUGENE TOWER★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



CATEGORY	A	B	C	D
CIRCLING	1200-1 831 (900-1)	1200-1¼ 831 (900-1¼)	1200-2½ 831 (900-2½)	1200-2¾ 831 (900-2¾)



TDZ/CL Rwy 16R
REIL Rwy 34R
HIRL Rwy 16L-34R and Rwy 16R-34L

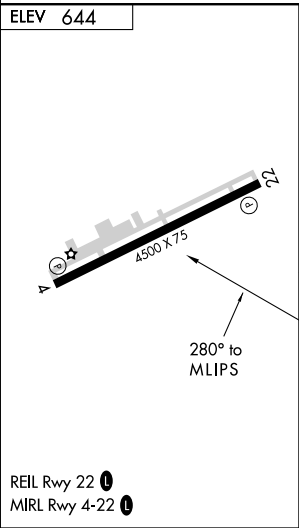
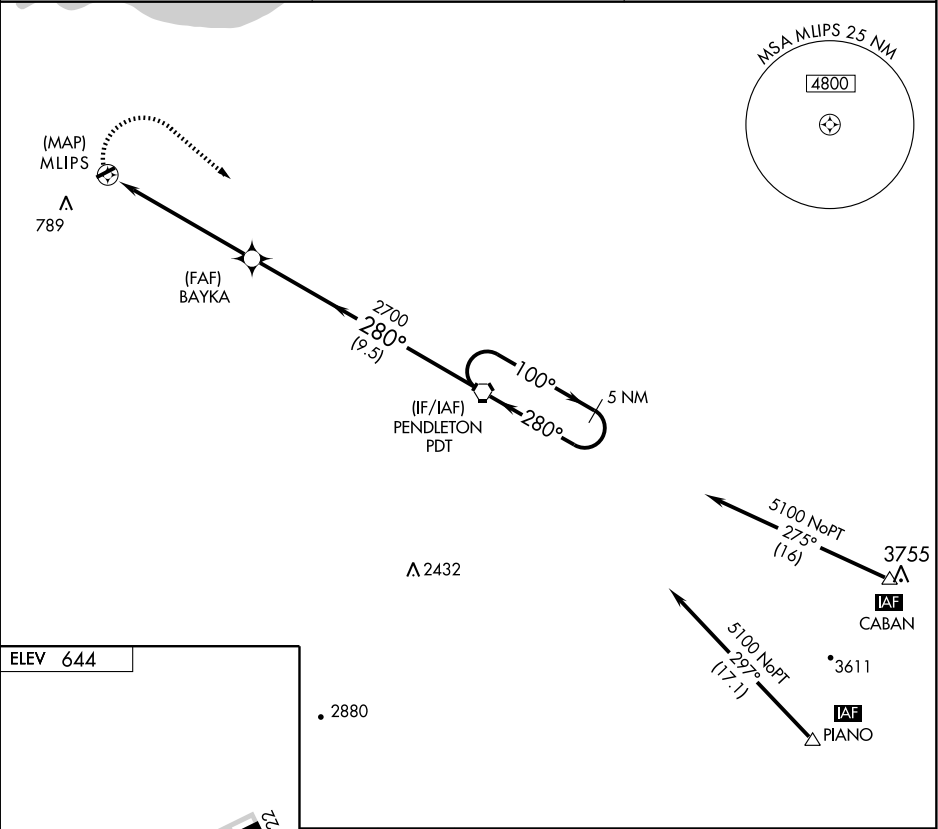
RNAV(GPS)-B
HERMISTON MUNI (HRI)



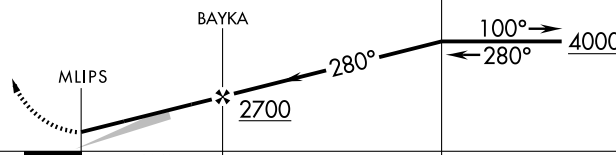
APP CRS 280°	Rwy Idg TDZE Apt Elev	N/A N/A 644
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GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
NA IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing right turn to 4000 direct PDT
VORTAC and hold.

ASOS 135.225	CHINOOK APP CON ★ 133.15 379.15	UNICOM 122.8 (CTAF) 0
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<div>4000</div> <div></div>	<div>PDT</div> <div></div>	<div>5 NM Holding Pattern</div>			
<div></div>					
CATEGORY	A		B	C	D
CIRCLING	1180-1 536 (600-1)		1180-1½ 536 (600-1½)	1200-2 556 (600-2)	

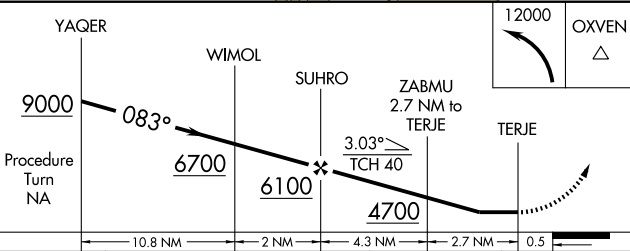
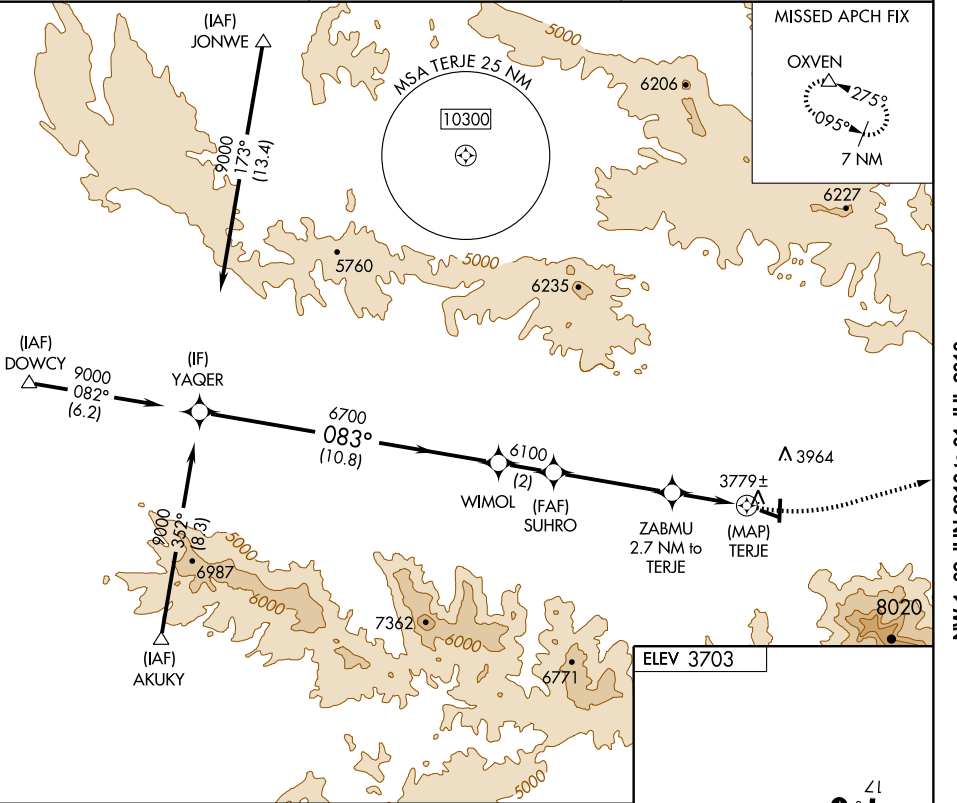
▼

▲

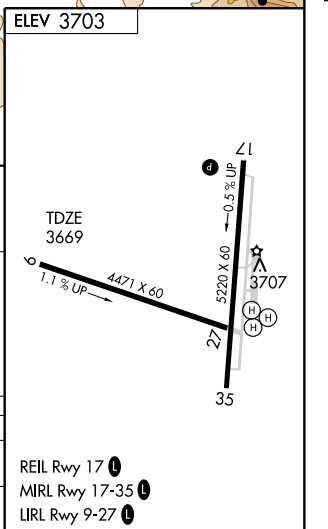
When local altimeter setting not received, procedure NA.
Circling NA south of Rwy 9-27. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 12000 direct
OXVEN and hold, continue climb-in-hold to 12000.

AWOS-3 118.375	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	4280-1 611 (600-1)	4280-1 611 (600-1 3/4)	4280-1 611 (600-1 3/4)	NA
CIRCLING	4280-1 577 (600-1)	4520-1 817 (900-1 1/4)	4520-2 817 (900-2 1/2)	NA



REIL Rwy 17 0

MRL Rwy 17-35 0

LIRL Rwy 9-27 0

WAAS CH 73010 W09A	APP CRS 091°	Rwy ldg TDZE Apt Elev 4471 3669 3703
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RNAV (GPS) Z RWY 9

JOHN DAY/GRANT COUNTY RGNL/OGILVIE FIELD (GCD)

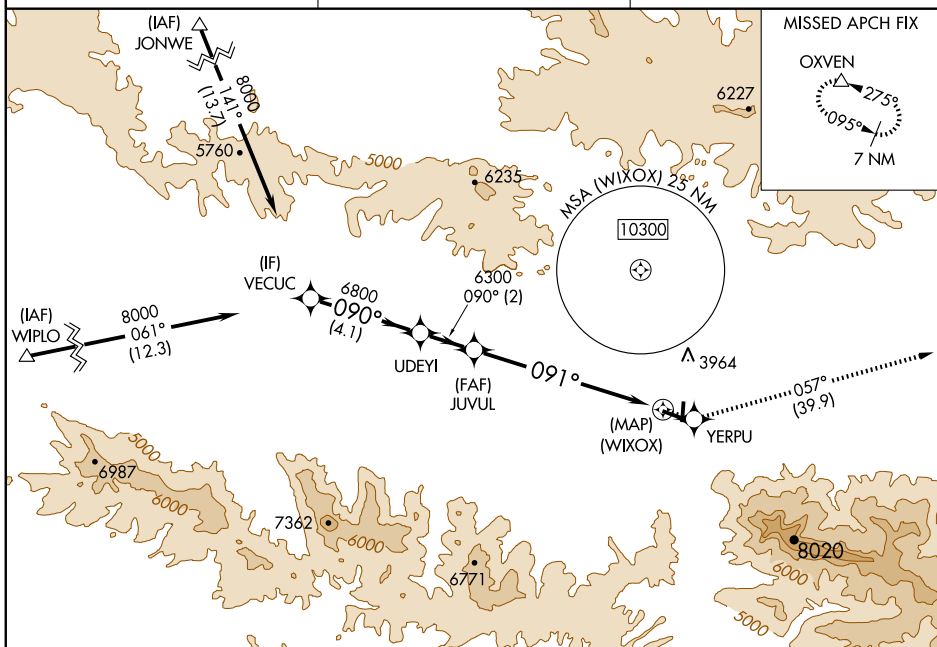
▼ When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 12000 direct YERPU then via 057° track to OXVEN and hold, continue climb-in-hold to 12000.

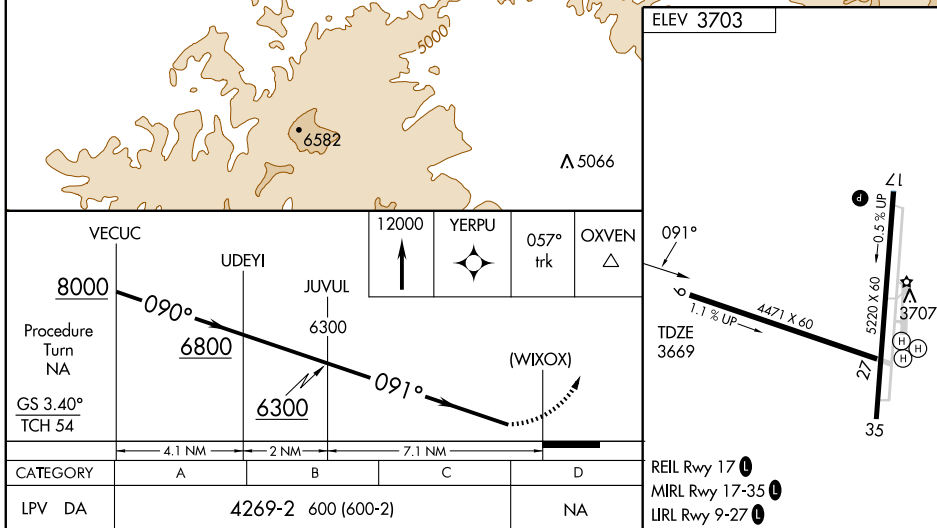
AWOS-3
118.375

SEATTLE CENTER
128.15 257.75

UNICOM
122.8 (CTAF) 0



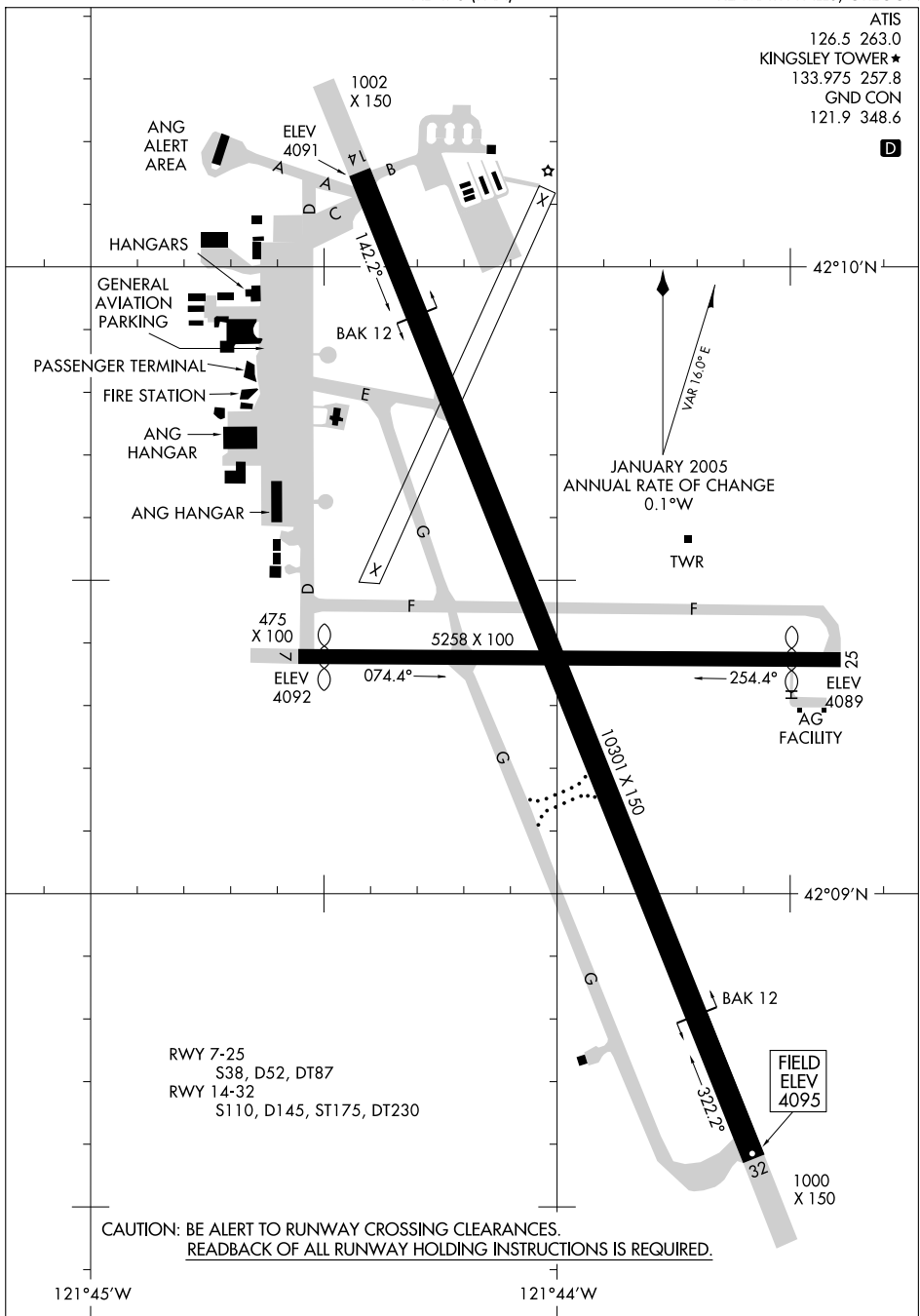
ELEV 3703



AIRPORT DIAGRAM

AL-473 (FAA)

KLAMATH FALLS, (LMT)
KLAMATH FALLS, OREGON

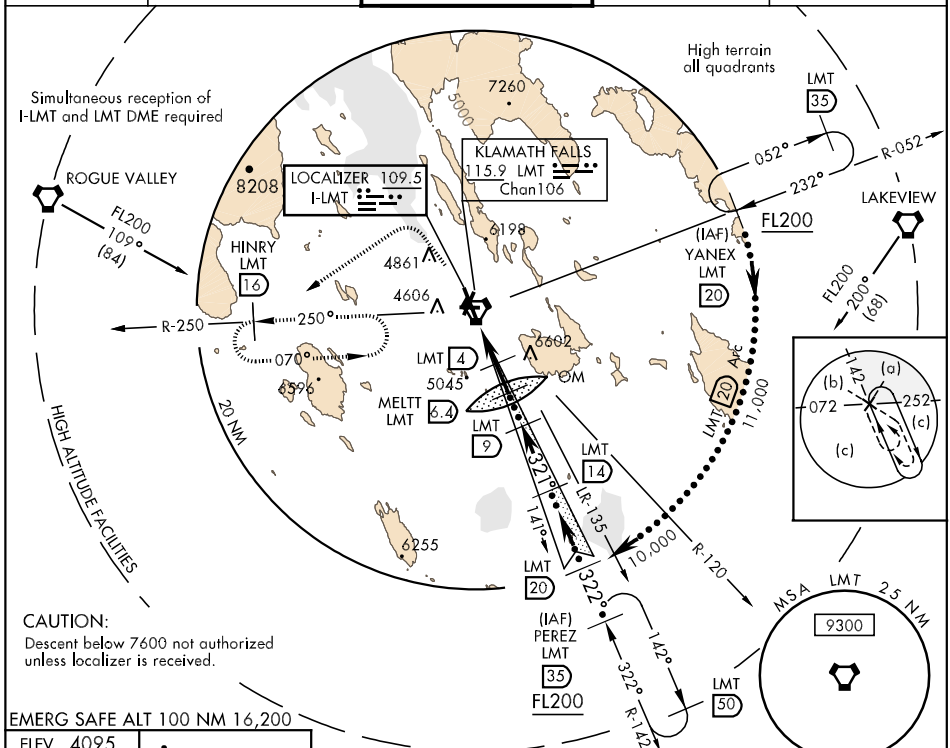


ATIS
126.5 263.0
KINGSLEY TOWER ★
133.975 257.8
GND CON
121.9 348.6

D

NW-1, 03 JUN 2010 to 01 JUL 2010

ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS
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CATEGORY	C	D	E
S-ILS 32	4292/24	200	(200-½)
S-LOC 32	4500/40	408 (500-¾)	4500/50 408 (500-1)
CIRCLING *	4980-2¾ 885 (900-2¾)	5000-3 905 (1000-3)	5600-3 1505 (1600-3)

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC LMT 115.9 Chan 106	APCH CRS 134°	Rwy ldg 10,301 TDZE 4088 Arpt Elev 4095
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JAL-473 [USAF]

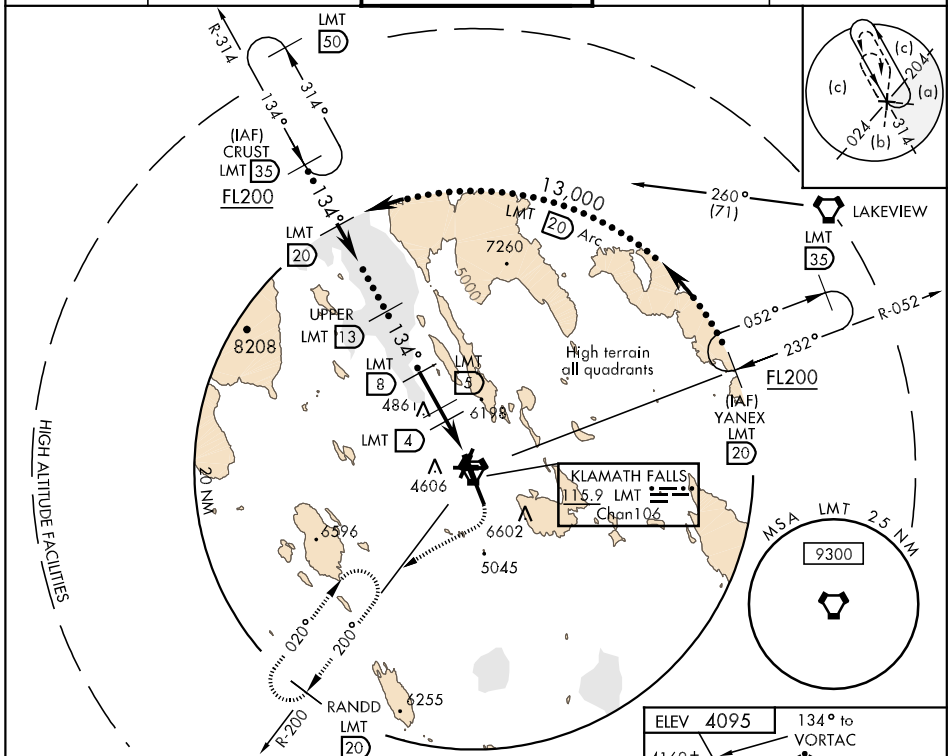
KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

▼ * Category E circling NE of Rwy 14-32 not authorized.

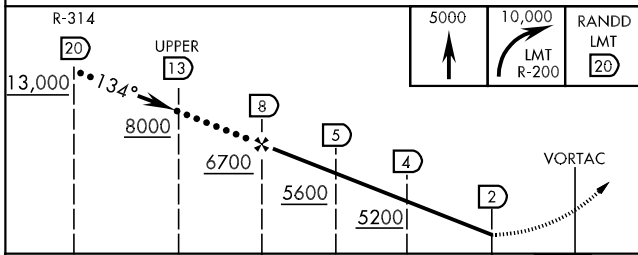


MISSED APPROACH: Climb straight ahead to 5000 then climbing right turn to 10,000 via LMT VORTAC R-200 to RANDD and hold.

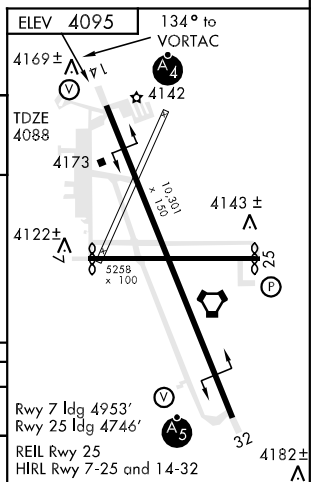
ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS
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EMERG SAFE ALT 100 NM 16,200



CATEGORY	C	D	E
S-14	4680-1½ 592 (600-1½)	4680-1¾ 592 (600-1¾)	
CIRCLING *	4980-2¾ 885 (900-2¾)	5000-3 905 (1000-3)	5500-3 1405 (1500-3)



VORTAC LMT 115.9 Chan 106	APCH CRS 328°	Rwy Idg 10,301 TDZE 4095 Arpt Elev 4095
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JAL-473 [USAF]

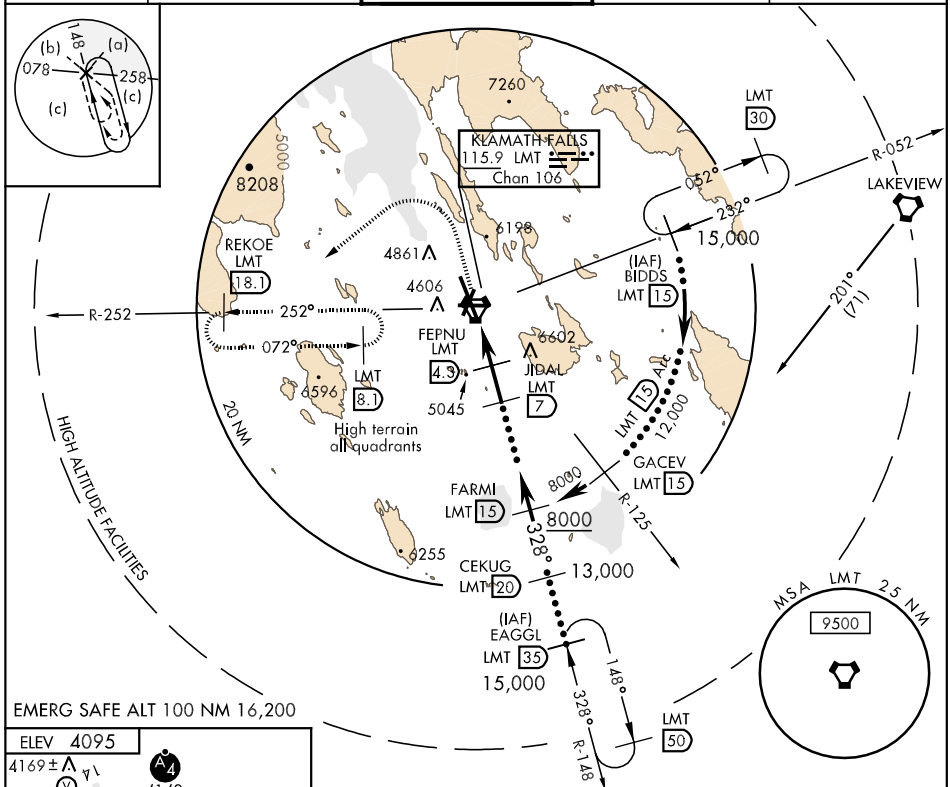
KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

V * When ALS inop, increase CAT CDE by ¼ mile.
 ** Category E circling NE of Rwy 14-32 not authorized.

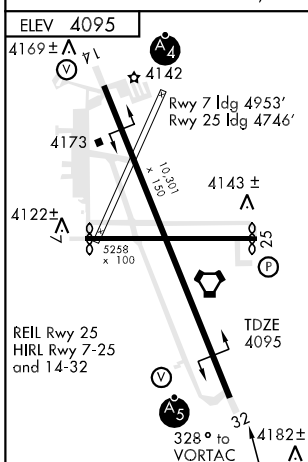


MISSED APPROACH: Climb to 5000 then climbing left turn to 10,000 to intercept LMT VORTAC R-252 to REKOE/LMT 18.1 DME and hold, continue climb in hold to 10,000.

ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS
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EMERG SAFE ALT 100 NM 16,200



KLAMATH FALLS, OREGON

Amdt 3 10042

42° 09'N-121° 44'W

KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

5000	10,000	REKOE LMT 18.1	VGSI and descent angle not coincident	Procedure turn NA	FARMI 15
LMT R-252					8000
VORTAC	HEGEX 1	FEPNU 4.3	JIDAL 7		
		5420	6300		
	3.3 NM	2.7 NM	8.0 NM		
CATEGORY	C	D	E		
S-32*	4440/40 345 (400-¾)	4440/50 345 (400-1)			
CIRCLING**	4980-2¾ 885 (900-2¾)	5000-3 905 (1000-3)	5600-3 1505 (1600-3)		

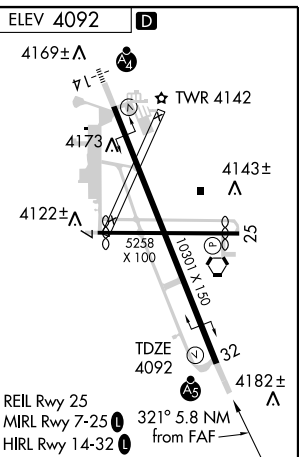
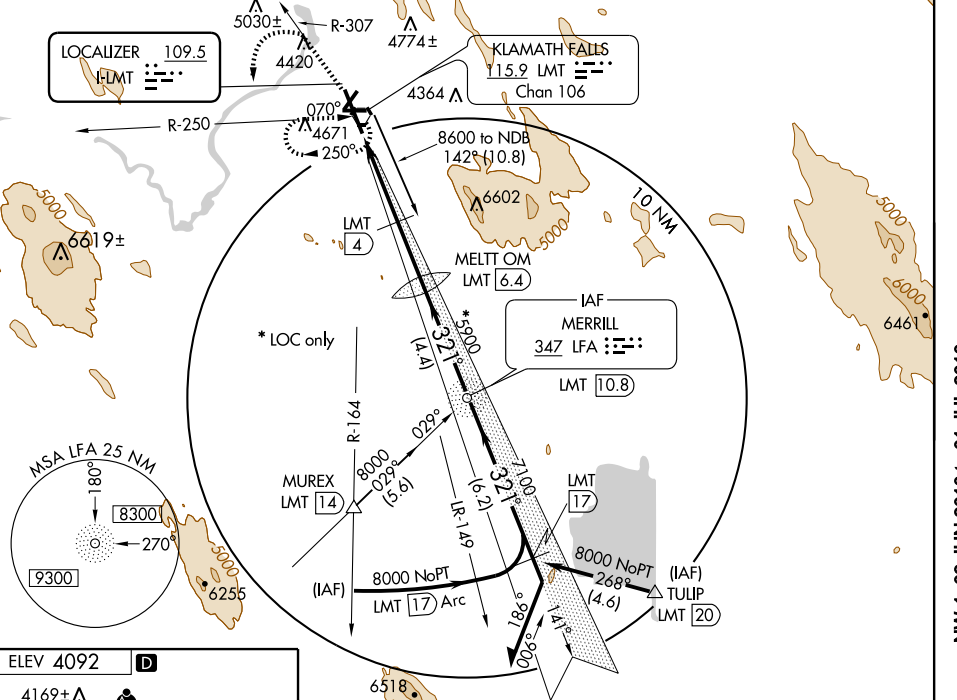
LOC I-LMT	APP CRS	Rwy Idg	10301
109.5	321°	TDZE	4092
		Apt Elev	4092

ASR/PAR

MALS

MISSED APPROACH: Climb to 5300 via LMT R-307 then climbing left turn westbound to 8500 via LMT R-250, then left turn direct LMT VORTAC and hold.

ATIS	KINGSLEY APP CON *	KINGSLEY TOWER *	GND CON	UNICOM
126.5 263.0	123.675 270.8	133.975 (CTAF) 257.8	121.9 348.6	122.95



ELEV 4092		D	
4169±		4173	
4122±		4143±	
5258		10301	
X 100		150	
TDZE 4092		4182±	
REIL Rwy 25		321° 5.8 NM	
MRL Rwy 7-25		from FAF	
HRL Rwy 14-32			
FAF to MAP 5.8 NM			
Knots	60	90	120
Min:Sec	5:48	3:52	2:54
			2:19
			1:56

3.4 NM	2.4 NM	4.4 NM
5300	8500	LMT
LMT R-307	LMT R-250	
LMT 0.6	LMT 4	MELTT OM LMT 6.4
4960*	5900*	6038
7100	7600	741°
*LOC only		GS 3.00°
		TCH 55
Remain within 10 NM		

CATEGORY	A	B	C	D
S-ILS 32	4292/24	200 (200-½)		
S-LOC 32	4960/24 868 (900-½)	4960/40 868 (900-¾)	4960-2 868 (900-2)	4960-2¼ 868 (900-2¼)
CIRCLING	4960-1 868 (900-1)	4980-1¼ 888 (900-1¼)	4980-2¾ 888 (900-2¾)	5000-3 908 (1000-3)
DME MINIMUMS				
S-LOC 32	4500/24	408 (500-½)	4500/40	408 (500-¾)
CIRCLING	4840-1 748 (800-1)	4980-1¼ 888 (900-1¼)	4980-2¾ 888 (900-2¾)	5000-3 908 (1000-3)

KINGSLEY THREE DEPARTURE

SL-473 (FAA)

KLAMATH FALLS (LMT)
KLAMATH FALLS, OREGON

ATIS

126.5 263.0

GND CON

121.9 348.6

KINGSLEY TOWER ★

133.975 257.8

KINGSLEY DEP CON ★

123.675 270.8

EUGENE

112.9 EUG

Chan 76

N44°07.25'-W123°13.37'

L-1, H-1

DESCHUTES

117.6 DSD

Chan 123

N44°15.17'-W121°18.21'

L-13, H-1

ROSEBURG

108.2 RBG

Chan 19

N43°10.95'-W123°21.14'

L-1, H-1

ROGUE VALLEY

113.6 OED

Chan 83

N42°28.78'-W122°54.78'

L-2, H-3

FORT JONES

109.6 FJS

Chan 33

N41°26.98'-W122°48.39'

L-2

10000 or
assigned altitude

LAKEVIEW

112.0 LKV

Chan 57

N42°29.57'-W120°30.43'

L-11, H-3

KLAMATH FALLS

115.9 LMT

Chan 106

N42°09.19'-W121°43.65'

L-2, H-3

10000 or
assigned altitude

RED BLUFF

115.7 RBL

Chan 104

N40°05.93'-W122°14.18'

L-2, H-3

MUSTANG

117.9 FMG

Chan 126

N39°31.88'-W119°39.37'

L-9, H-3

NOTE: Chart not to scale.

NOTE: This SID requires a minimum climb of 325' per NM to 8500' or 4500' ceiling and 3 mile visibility to clear obstruction. (813 FPM at 150K, 1083 FPM 200K, 1354 FPM at 250K).

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14 and 32: Climb via runway heading until leaving 4700'. Then via radar vector headings to assigned route.

LOST COMMUNICATIONS

If not in contact with Seattle Center after reaching 10000' or assigned altitude, if lower; continue climb to assigned altitude and:

Take-off runway 14: Climbing right turn direct LMT VORTAC, thence via (assigned route).

Take-off runway 32: Climbing left turn direct LMT VORTAC, thence via (assigned route).

RNAV (GPS) RWY 14

KLAMATH FALLS (LMT)

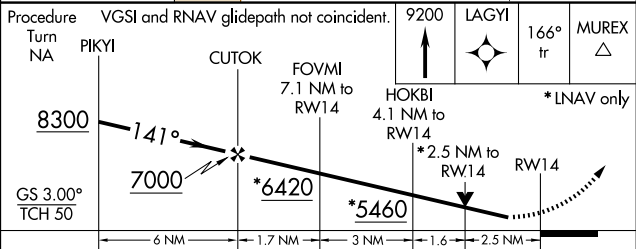
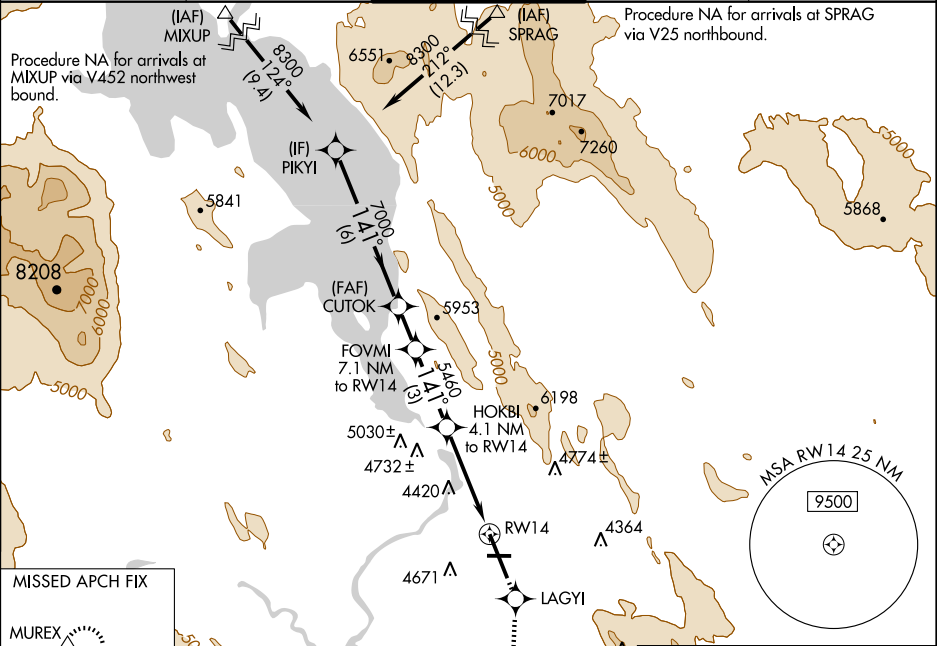
WAAS CH 58001 W14A	APP CRS 141°	Rwy Idg 10301 TDZE 4091 Apt Elev 4095
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⚠ DME/DME RNP-0.3 NA.
⚠ Inoperative table does not apply to LPV all Cats, and LNAV Cats B, C and D.
ASR/PAR Visibility reduction by helicopters NA.

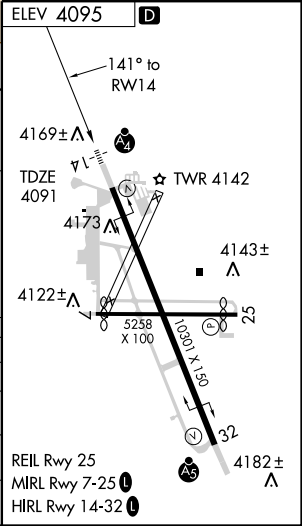
MALSF

MISSED APPROACH: Climb to 9200 direct LAGYI and via 166° track to MUREX and hold, continue climb-in-hold to 9200.

ATIS 126.5 263.0	KINGSLEY APP CON * 123.675 270.8	KINGSLEY TOWER * 133.975 (CTAF) 0 257.8	GND CON 121.9 348.6	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		4635-2	544 (600-2)	
LNAV/VNAV DA				NA
LNAV MDA	4920-3/4 829 (900-3/4)	4920-1 1/4 829 (900-1 1/4)	4920-2 1/2 829 (900-2 1/2)	4920-2 3/4 829 (900-2 3/4)
CIRCLING	4920-2 825 (900-2)	4980-2 885 (900-2)	4980-2 3/4 885 (900-2 3/4)	5060-3 965 (1000-3)



VORTAC LMT 115.9 Chan 106	APP CRS 134°	Rwy Idg 10301 TDZE 4091 Apt Elev 4095
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VOR/DME or TACAN RWY 14

KLAMATH FALLS (LMT)

T	Cat E circling NA northeast of Rwy 14-32.
A	For inoperative MALSF increase S-14 Cat E visibility to 2 $\frac{3}{4}$, inoperative table does not apply to Cats B, C, and D.
ASR/PAR	Visibility reduction by helicopters NA.

MALSF



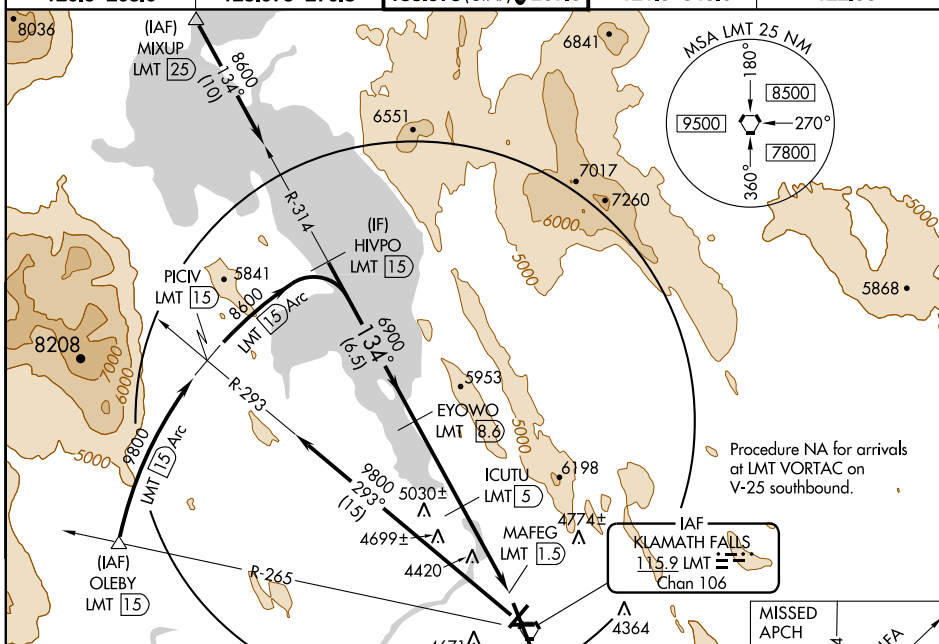
MISSED APPROACH: Climb to 4900 then climbing right turn to 9200 via LMT R-164 to MUREX/14 DME and hold, continue climb-in-hold to 9200.

ATIS
126.5 263.0

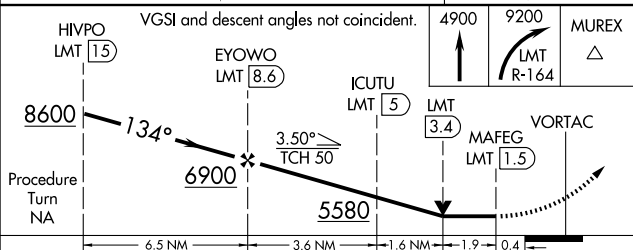
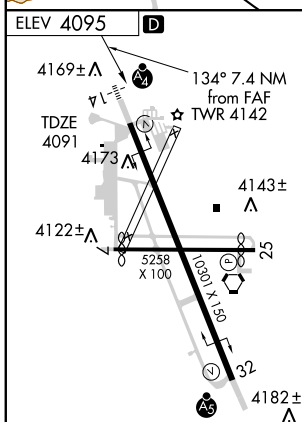
KINGSLEY APP CON★
123.675 270.8

KINGSLEY TOWER★
133.975 (CTAF) **0** 257.8

GND CON
21.9 348.6

UNICOM
122.95

Procedure NA for arrivals
at LMT VORTAC on
V-25 southbound.



CATEGORY	A	B	C	D	E
S-14	4860-3/4 769 (800-3/4)	4860-1 1/4 769 (800-1 1/4)	4860-2 1/4 769 (800-2 1/4)	4860-2 1/2	769 (800-2 1/2)
CIRCLING	4860-1 765 (800-1)	4980-1 1/4 885 (900-1 1/4)	4980-2 3/4 885 (900-2 3/4)	5060-3 965 (1000-3)	5600-3 1505 (1600-3)

REIL Rwy 25
MIRL Rwy 7-25 **L**
HIRL Rwy 14-32 **L**

AL-473 (FAA)

VOR/DME or TACAN RWY 32
KLAMATH FALLS (LMT)

KLAMATH FALLS (LMT)



MISSED APPROACH: Climb to 5000 then climbing left turn to 8500 via LMT R-260 then climbing left turn to 10000 direct LMT VORTAC. (TACAN aircraft continue climb on R-260 to 10000 to GIANT/16 DME and hold East, left turns, 260 inbound.)

Diagram illustrating the LMT (Localizer Minimum Threshold) for various aircraft categories (A, B, C, D, E) relative to a VORTAC station. The diagram shows the LMT for each category and the corresponding distance in NM (Nautical Miles).

CATEGORY	A	B	C	D	E
S-32	4500/24	408 (500-1/2)	4500/40 408 (500-3/4)	4500/50	408 (500-1)
CIRCLING*	4840-1 748 (800-1)	4980-1 1/4 888 (900-1 1/4)	4980-2 3/4 888 (900-2 3/4)	5000-3 908 (1000-3)	5500-3 1408 (1500-3)

NW-1 03.JUN 2010 to 01.JUL 2010

VORTAC LMT 115.9 Chan 106	APP CRS 340°	Rwy Idg N/A TDZE N/A Apt Elev 4092
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VOR or GPS-B
KLAMATH FALLS (LMT)

ASR/PAR

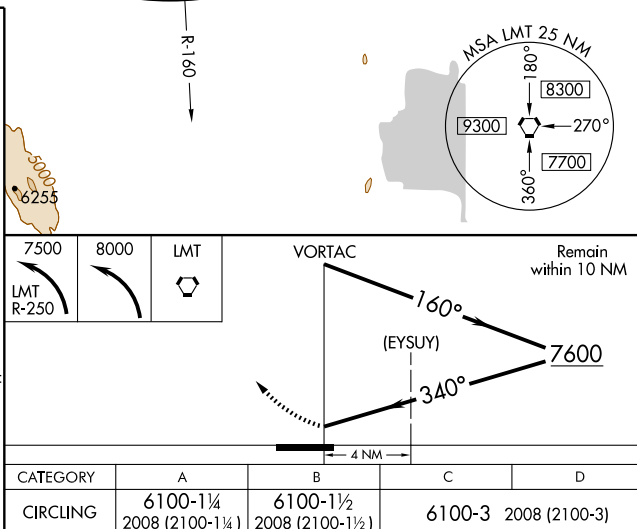
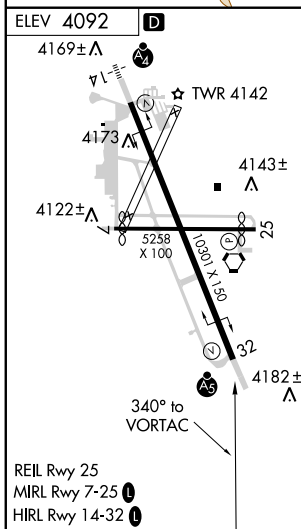
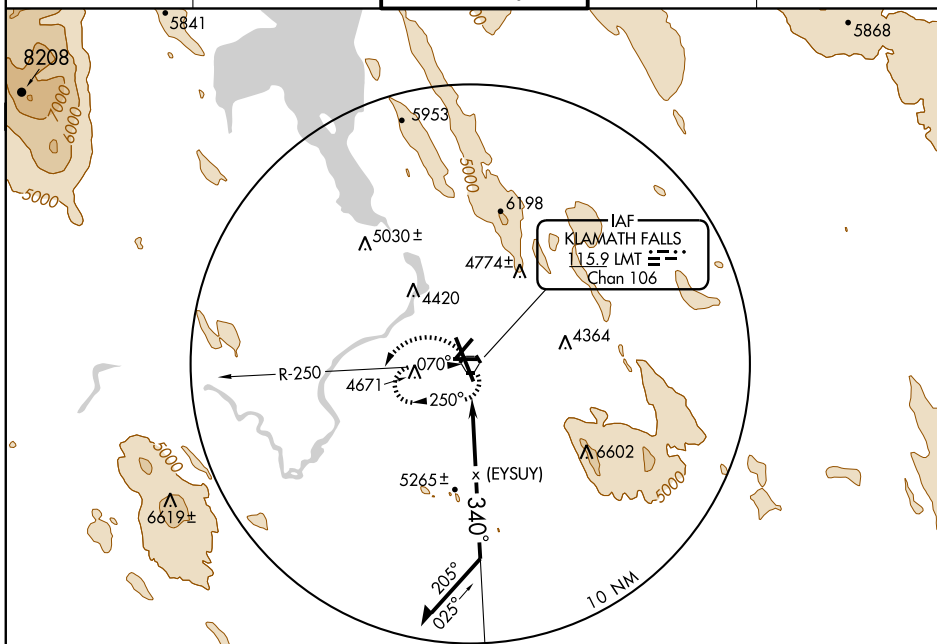
MISSED APPROACH: Climbing left turn to 7500 via LMT R-25 then climbing left turn to 8000 direct LMT VORTAC and hold.

ATIS
126.5 263.0

KINGSLEY APP CON★
123.675 270.8

KINGSLEY TOWER★
133.975 (CTAF) 257.8

GND CON
121.9 348.6

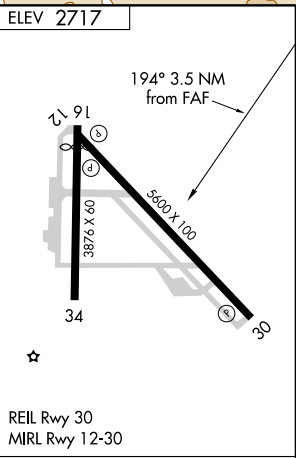
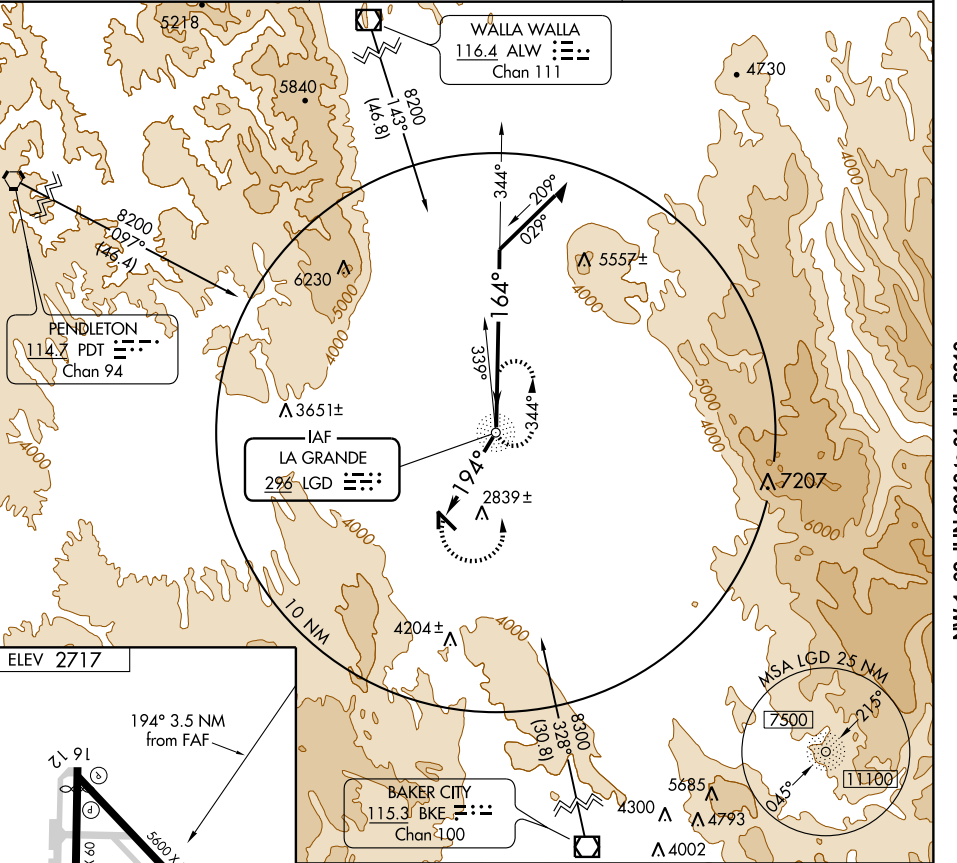
UNICOM
122.95

NDB LGD	APP CRS	Rwy Idg TDZE	N/A
296	194°	Apt Elev	2717

NA

MISSED APPROACH: Climbing left turn to 7000 direct LGD NDB and 339° bearing from LGD NDB, then right turn direct LGD NDB and hold.

AWOS-3 135.075	SEATTLE CENTER 132.6 269.35	UNICOM 122.8 (CTAF)
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7000

LGD

LGD 339°

LGD

NDB*

Remain within 10 NM

344°

6600

194°

164°

5600

3.5 NM

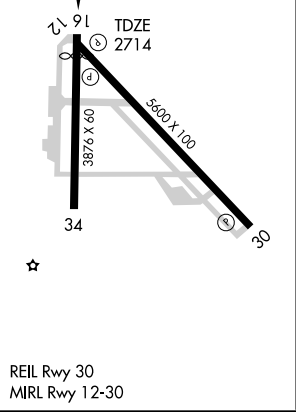
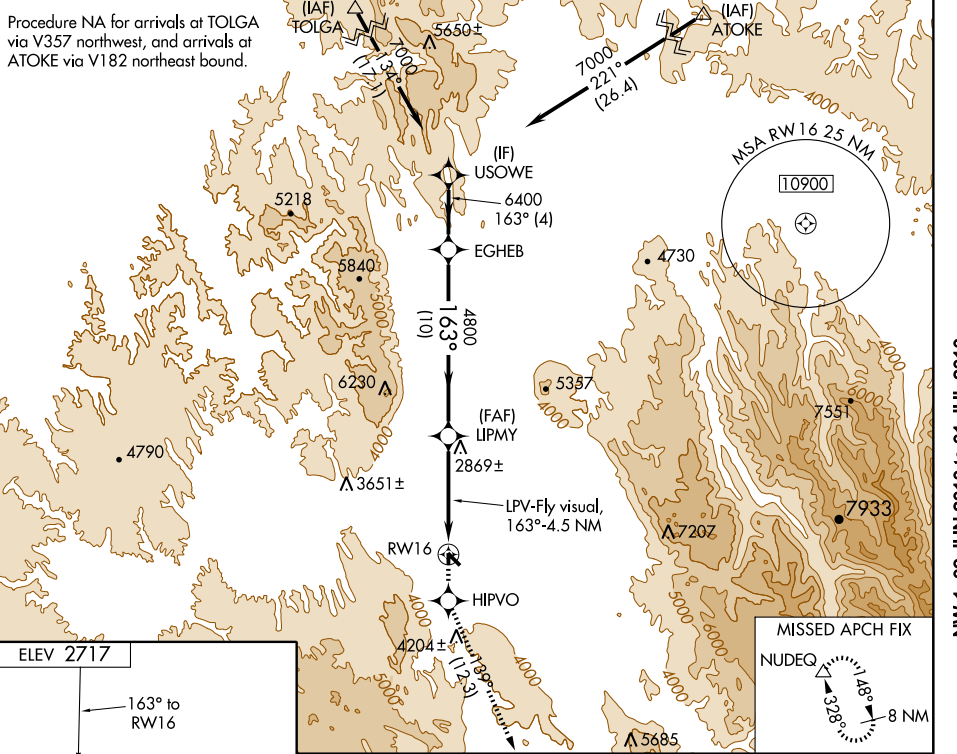
*Maximum entry altitude 10000

FAF to MAP 3.5 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	4360-1¼ 1643 (1700-1¼)	4360-1½ 1643 (1700-1½)	4360-3 1643 (1700-3)	NA
Min:Sec	3:30	2:20	1:45	1:24	1:10					

DME/DME RNP-0.3 NA.
If local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9000 direct HIPVO and via 139° track to NUDEQ and hold, continue climb-in-hold to 9000.

AWOS-3 135.075	SEATTLE CENTER 132.6 269.35	UNICOM 122.8 (CTAF)
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9000	HIPVO	139° tr	NUDEQ	*LNAV only	USOWE	Procedure Turn NA
LPV, Fly visual 163° 4.5 NM	EGHEB	LIPMY	*5.3 NM to RW16	7000	6400	GS 3.00° TCH 35
RW16	4800	5.3 NM	1 NM	10 NM	4 NM	
CATEGORY	A	B	C	D		
LPV DA	4173-2	1459 (1500-2)	4173-3	1459 (1500-3)		
LNAV/VNAV DA	NA					
LNAV MDA	4440-1¼ 1726 (1800-1¼)	4440-1½ 1726 (1800-1½)	4440-3	1726 (1800-3)		
CIRCLING	4440-6 1723 (1800-6)					

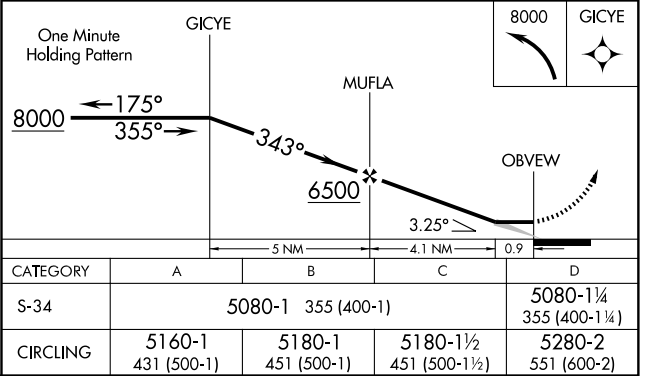
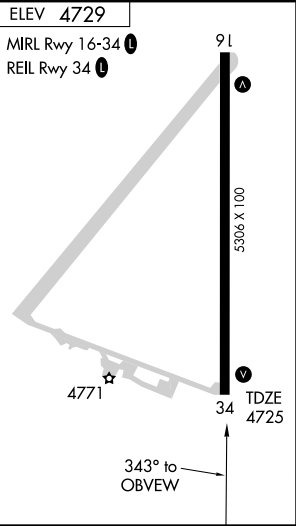
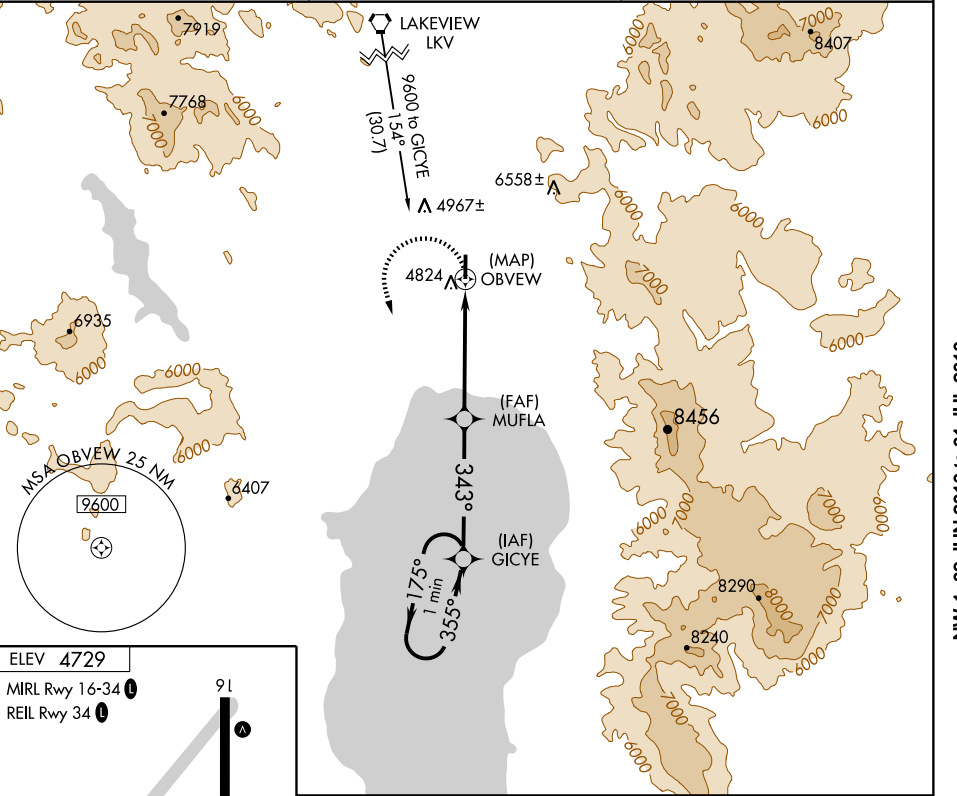
REIL Rwy 30
MRL Rwy 12-30

▼

▲ NA

MISSED APPROACH: Climbing left turn to 8000, direct GICYE WP and hold.

AWOS-3 135.525	SEATTLE CENTER 127.6 346.35	UNICOM 122.8 (CTAF) 0
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NW-1, 03 JUN 2010 to 01 JUL 2010

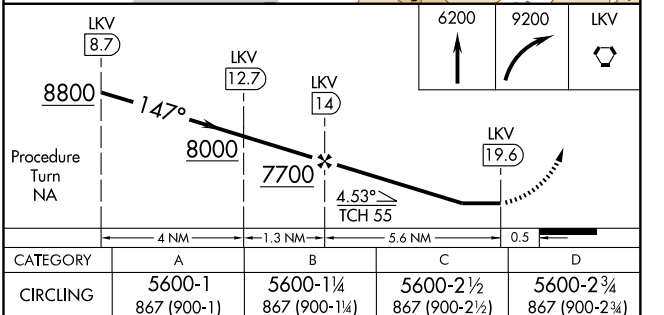
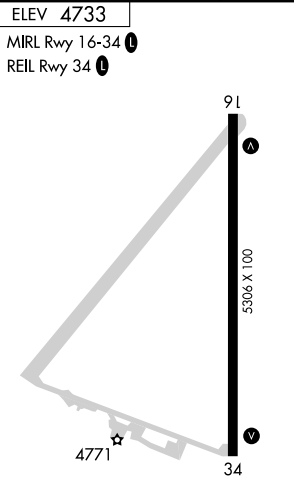
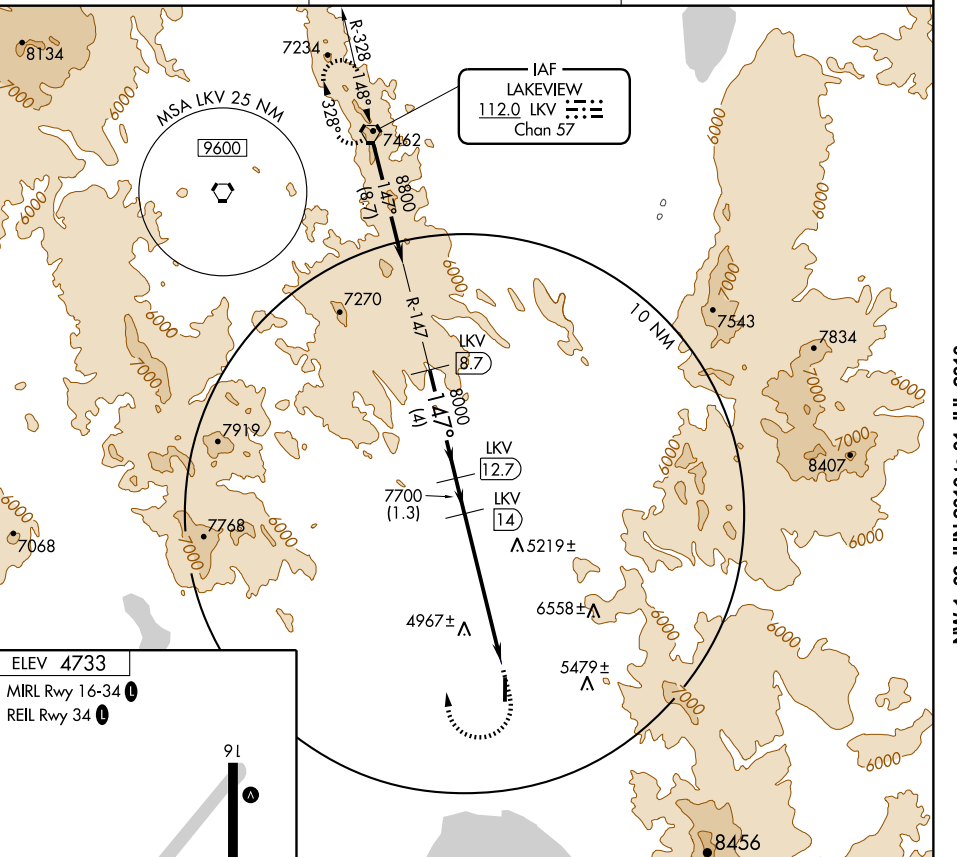


MISSED APPROACH: Climb to 6200 then climbing right turn to 9200 direct LKV VORTAC and hold.

AWOS-3
135.525

SEATTLE CENTER
127.6 346.35

UNICOM
122.8 (CTAF) 



NW-1. 03 JUN 2010 to 01 JUL 2010

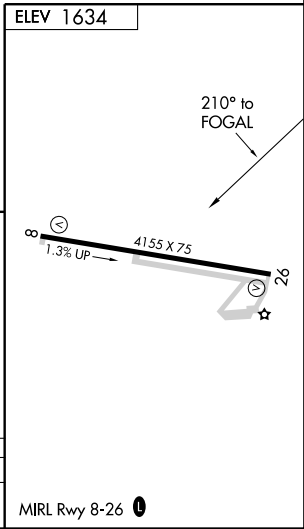
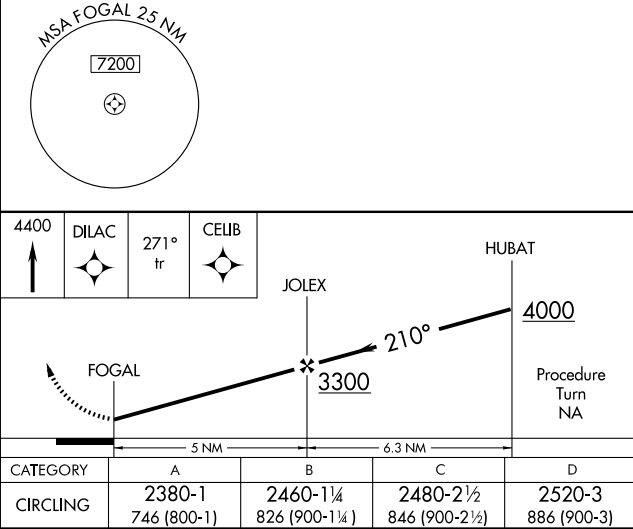
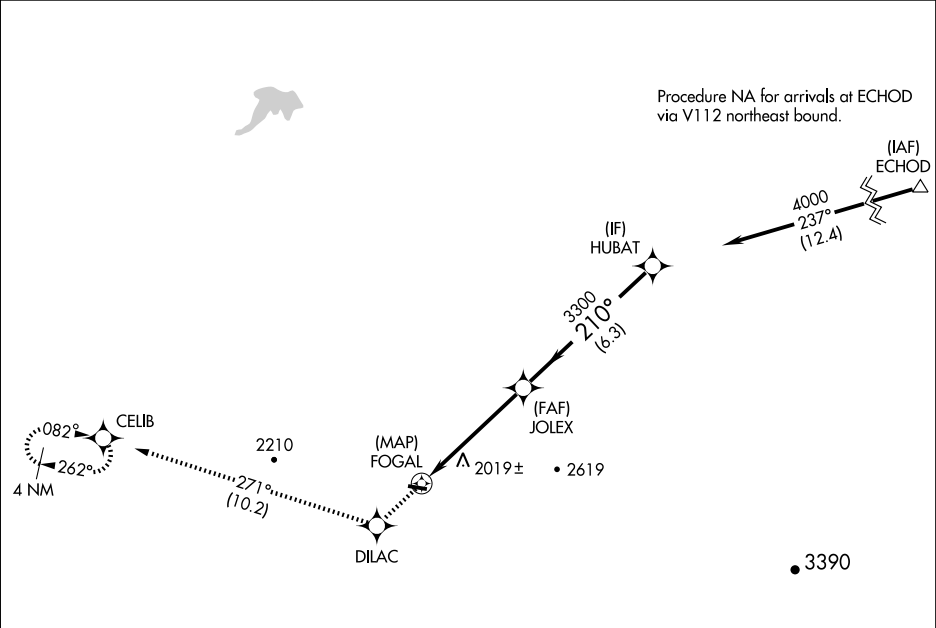
RNAV (GPS)-A
LEXINGTON (9S9)

APP CRS	Rwy Idg	N/A
210°	TDZE	N/A
	Apt Elev	1634

⚠ If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 220 feet. Procedure NA at night. GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4400 direct DILAC WP and via 271° track to CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9 0
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NW-1. 03 JUN 2010 to 01 JUL 2010

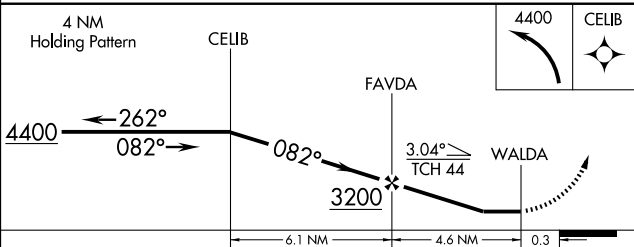
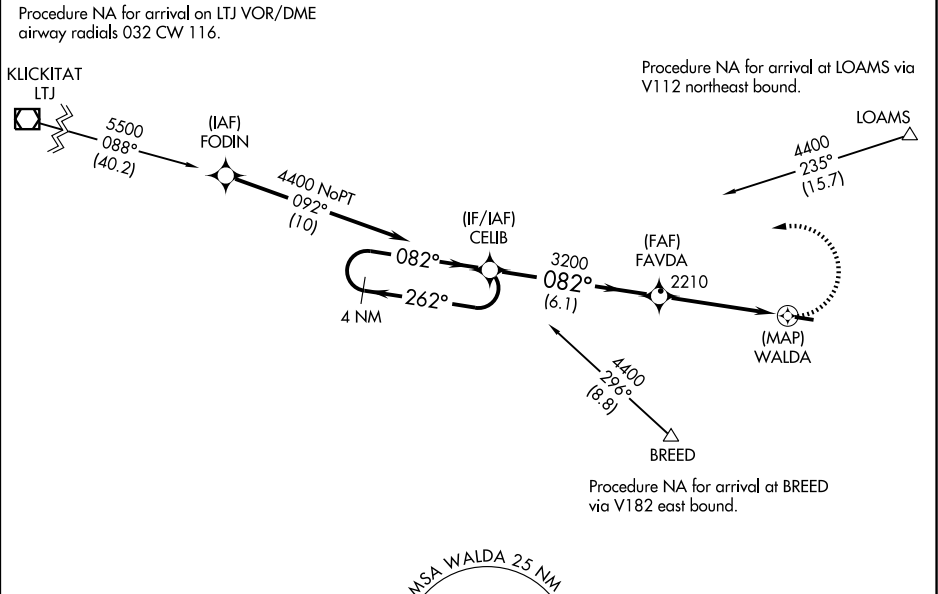
APP CRS	Rwy Idg	4155
082°	TDZE	1613
	Apt Elev	1634

RNAV (GPS) RWY 8
LEXINGTON (9S9)

NA If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 220 feet.
Procedure NA at night.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 4400 direct CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9
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CATEGORY	A	B	C	D
LNAV MDA	2120-1	507 (500-1)	2120-1½	507 (500-1½)
CIRCLING	2380-1 746 (800-1)	2460-1¼ 826 (900-1¼)	2480-2½ 846 (900-2½)	2520-3 886 (900-3)

ELEV 1634

TDZE 1613

41.55 X 75

1.3% UP

26

MIRL Rwy 8-26

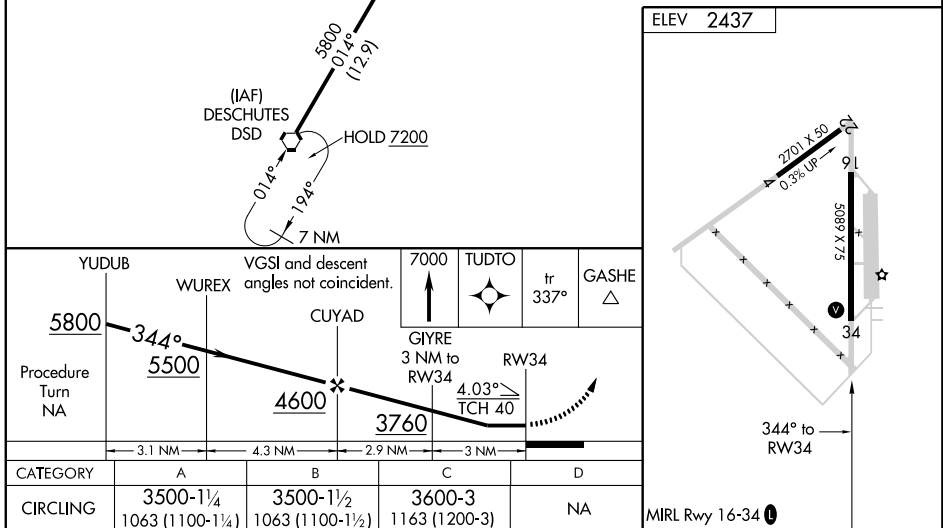
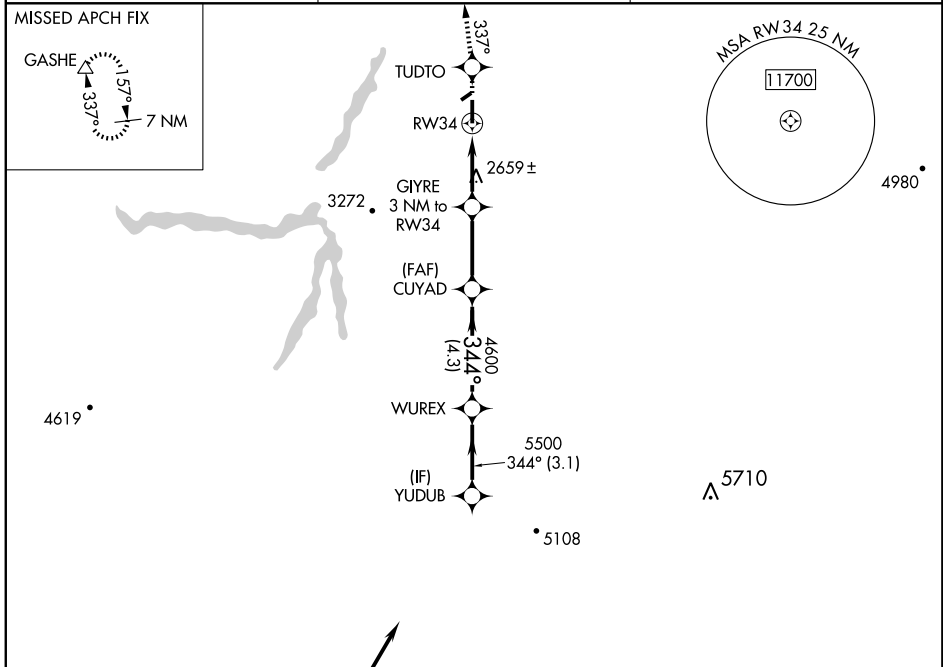
APP CRS 344°	Rwy Idg TDZE Apt Elev	N/A N/A 2437
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RNAV (GPS)-A MADRAS MUNI (S33)

NA DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Redmond altimeter setting; when not received, procedure NA.

MISSED APPROACH: Climb to 7000 direct TUDTO and on track 337° to GASHE and hold, continue climb-in-hold to 7000.

REDMOND ASOS 119.025	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF)
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WAAS CH 93518 W16A	APP CRS 164°	Rwy Idg TDZE Apt Elev	5089 2433 2437
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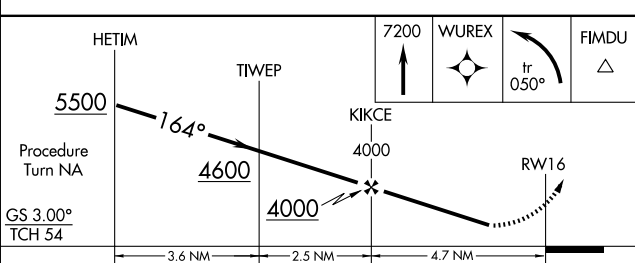
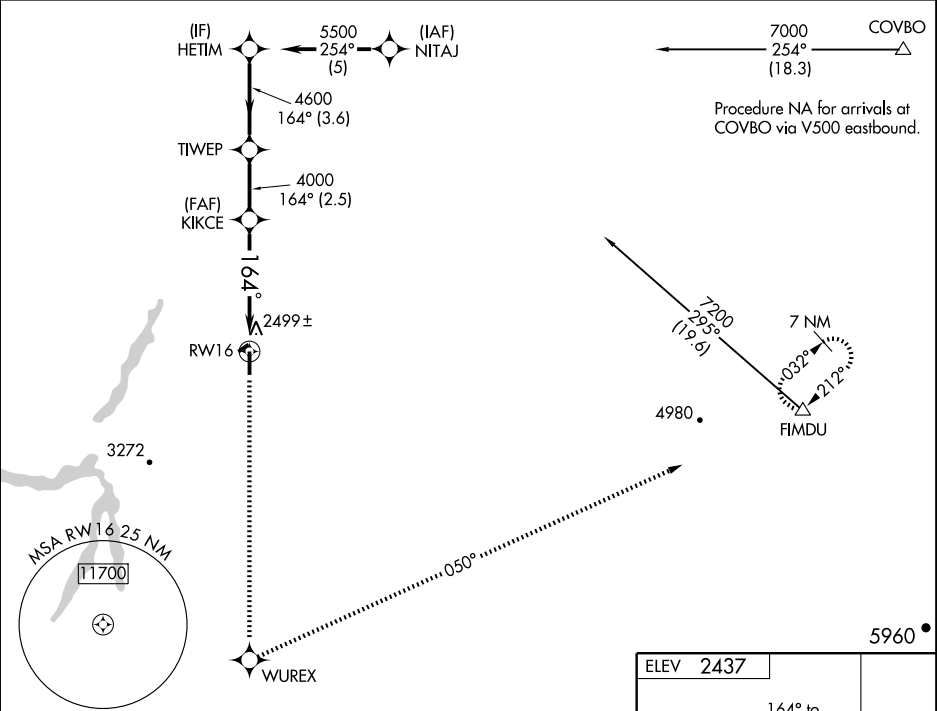
RNAV (GPS) RWY 16

MADRAS MUNI (S33)

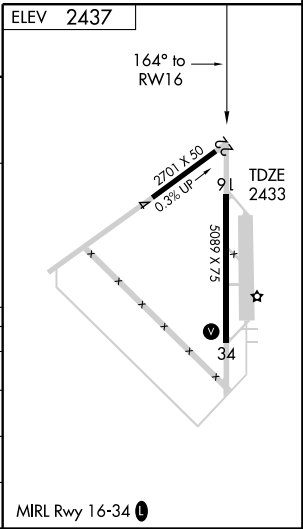
Baro-VNAV NA. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
Use Redmond altimeter setting; when not received, procedure NA.

MISSED APPROACH: Climb to 7200 direct WUREX
and left turn on track 050° to FIMDU and hold.

REDMOND ASOS 119.025	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	3263-3	830 (900-3)		NA
RNAV/ VNAV DA	3349-4	916 (1000-4)		NA
RNAV MDA	3440-1¼ 1007 (1100-1¼)	3440-1½ 1007 (1100-1½)	3440-3 1007 (1100-3)	NA
CIRCLING	3460-1¼ 1023 (1100-1¼)	3480-1½ 1043 (1100-1½)	3600-3 1163 (1200-3)	NA



LOC I-MMV	APP CRS	Rwy Idg	5420
110.9	218°	TDZE	161
		Apt Elev	163

ILS or LOC RWY 22

MC MINNVILLE MUNI (MMV)

DME Required.
When local altimeter setting not received, use Aurora State altimeter setting and increase all DA and MDA 60 feet.
Increase all visibility 1/4 mile.

MALSR

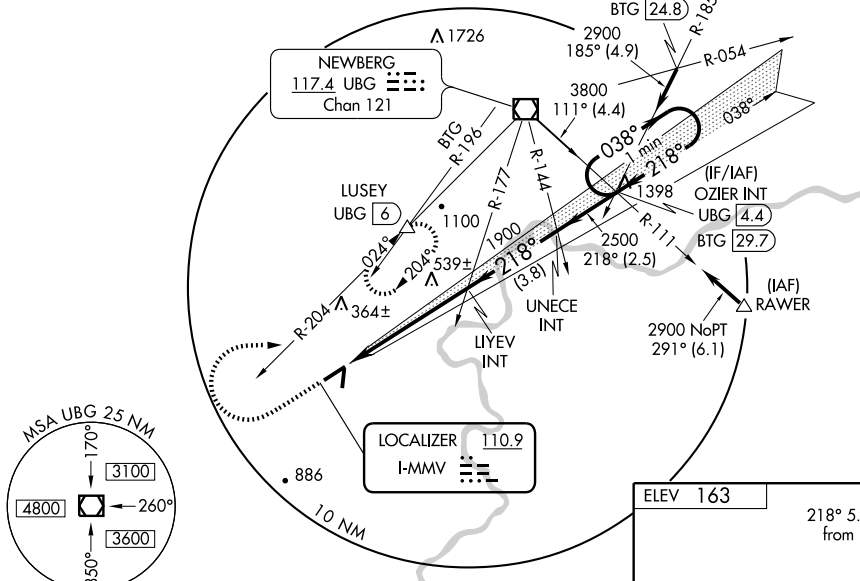


MISSED APPROACH: Climb to 900 then climbing right turn to 3000 via heading 069° and UBG VOR/DME R-204 to LUSEY/UBG VOR/DME 6 DME and hold, continue climb-in-hold to 3000. When authorized by ATC, climb-in-hold to 6000.

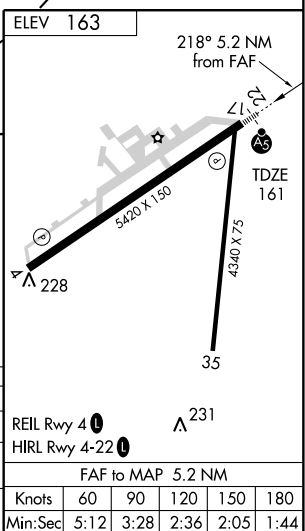
ASOS	PORTLAND APP CON	SEATTLE CENTER	McMINNVILLE RADIO	CLNC DEL	UNICOM
135.675	126.0 284.6 (NORTH)	125.8 291.7 (SOUTH)	122.45	118.35	123.0 (CTAF) 0

Procedure NA for arrivals on BTG VORTAC
 airway radials 160 CW 175.

2704



900	3000	UBG R-204	LUSEY	OZIER INT UBG 4.4	One Minute Holding Pattern
↑	hdg 069°		△		
		LIYEV INT		UNECE INT	
		1900		218°	038° → 2900
				2500	← 218°
				1900	GS 3.00° TCH 57
		5.2 NM	3.8 NM	2.5 NM	
CATEGORY	A	B	C	D	
S-ILS 22	361-1/2		200 (200-1/2)		
S-LOC 22	600-1/2 439 (500-1/2)		600-3/4 439 (500-3/4)		600-1 439 (500-1)
CIRCLING	640-1 477 (500-1)		760-1 597 (600-1 1/2)		880-2 717 (800-2 1/4)




APP CRS 038°	Rwy Idg TDZE Apt Elev	5420 161 163
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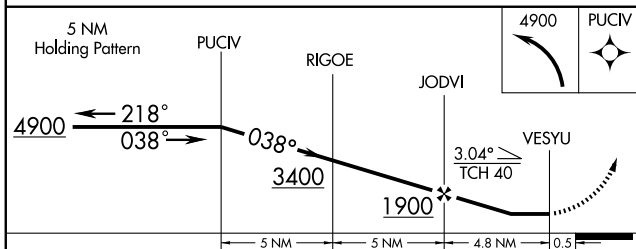
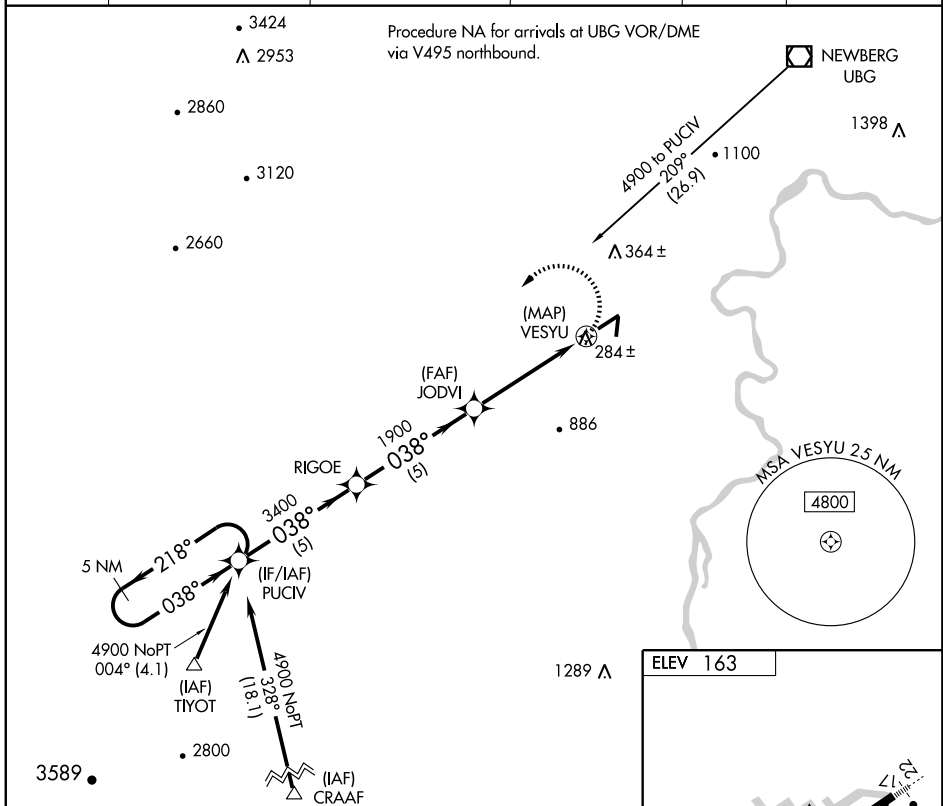
RNAV (GPS) RWY 4

MC MINNVILLE MUNI (MMV)

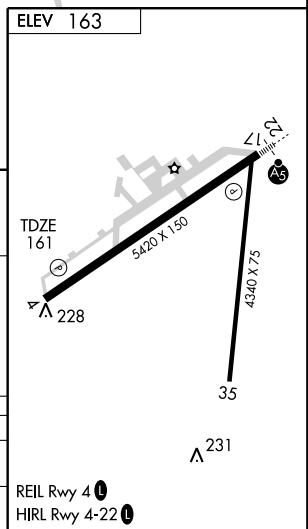
T DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
A When local altimeter setting not received, use Aurora State altimeter setting and increase all MDA 60 feet and all visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4900 direct PUCIV and hold, continue climb-in-hold to 4900.

ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 
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CATEGORY	A	B	C	D
LNAY MDA	580-1	419 (500-1)	580-1¼	419 (500-1¼)
CIRCLING	640-1	477 (500-1)	760-1½ 597 (600-1½)	880-2¼ 717 (800-2¼)



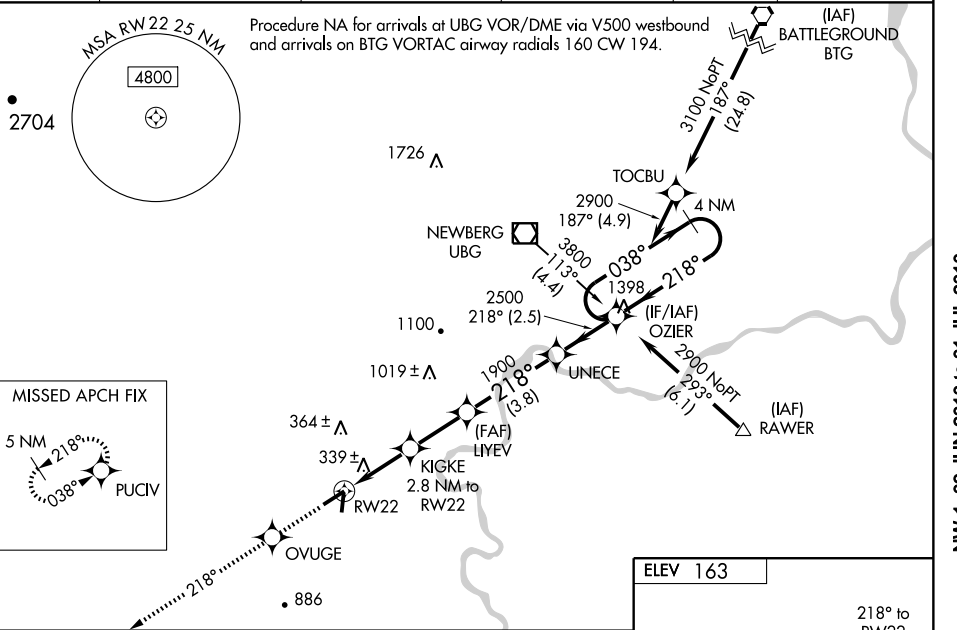
WAAS CH 50309 W22A	APP CRS 218°	Rwy Idg TDZE Apt Elev	5420 161 163
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⚠ For inoperative MALSR, increase LPV all Cats. visibility to 1. Baro-VNAV NA when using Aurora State altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. For inoperative MALSR when using Aurora State altimeter setting increase LPV visibility all Cats. to 1 ¼. VDP NA when using Aurora State altimeter setting. When local altimeter setting not received, use Aurora State altimeter setting and increase all DA and MDA 60 feet, increase all visibility ¼ mile.

MALSR

MISSED APPROACH: Climb to 4900 direct OVUGE then via 218° track to PUCIV and hold, continue climb-in-hold to 4900.

ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 1
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4900

↑

OVUGE

218°
tr

PUCIV

* LNAV only

KIGKE
2.8 NM to
RW22

LYEV
1900

UNCE

OZIER

4 NM
Holding Pattern

038° → 2900

← 218°

2500

1100*

1900

GS 3.00°
TCH 57

1.7

1.1

2.4 NM

3.8 NM

2.5 NM

CATEGORY

A

B

C

D

LPV DA

474-1½

313 (400-½)

LNAV/
VNAV DA

633-1¼

472 (500-1¼)

LNAV MDA

740-½

579 (600-½)

740-1

579 (600-1)

740-1¼

579 (600-1¼)

CIRCLING

740-1

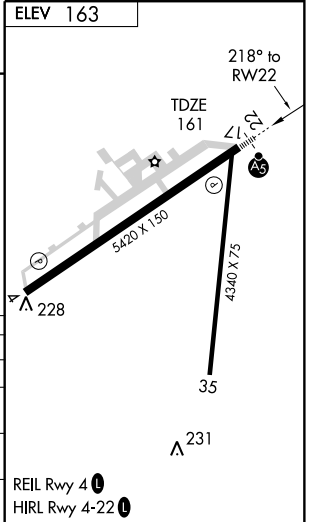
577 (600-1)

760-1½

597 (600-1½)

880-2¼

717 (800-2¼)



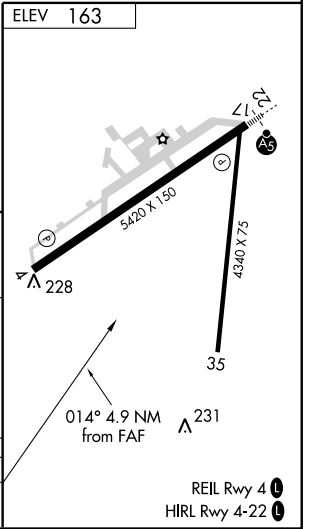
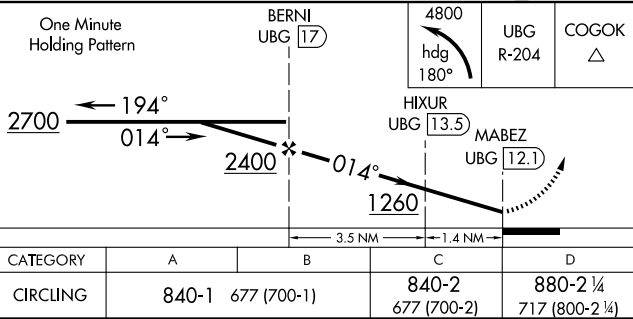
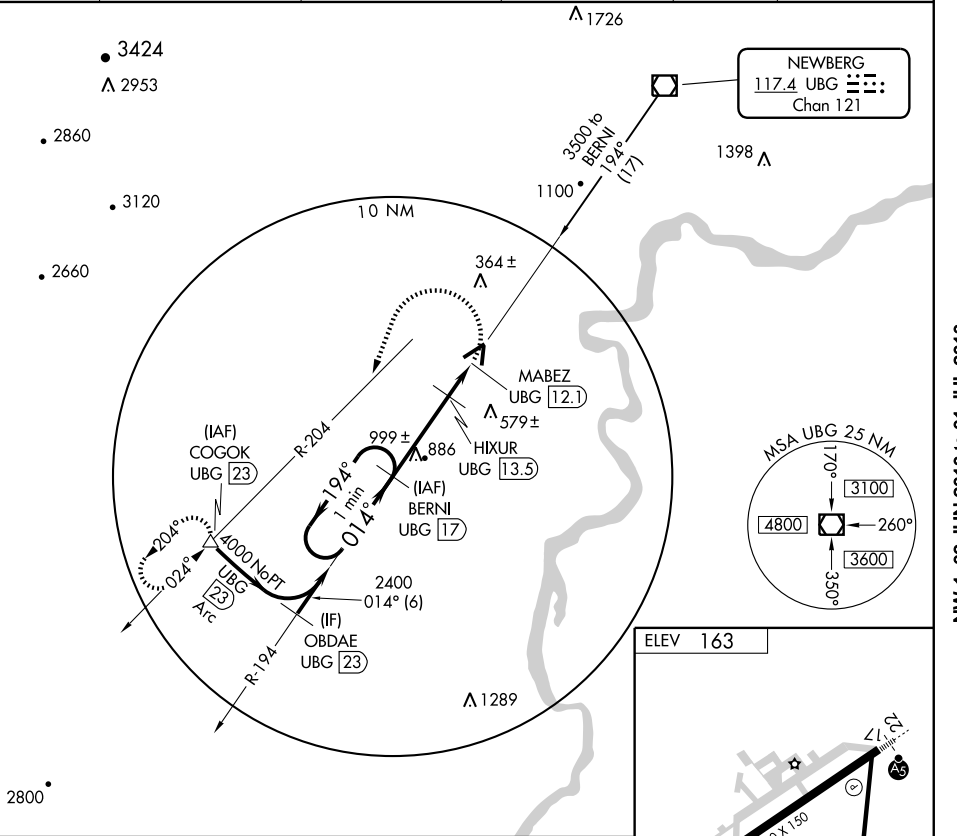
NW-1. 03 JUN 2010 to 01 JUL 2010

VOR/DME UBG	APP CRS	Rwy Idg TDZE	N/A
117.4	014°		N/A
Chan 121		Apt Elev	163

⚠ When local altimeter setting not received use Aurora State altimeter setting and increase all MDA 60 feet and all visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4800 via heading 180° and UBG VOR/DME R-204 to COGOK/UBG 23 DME and hold, continue climb-in-hold to 4800. When authorized by ATC, climb-in-hold to 6000.

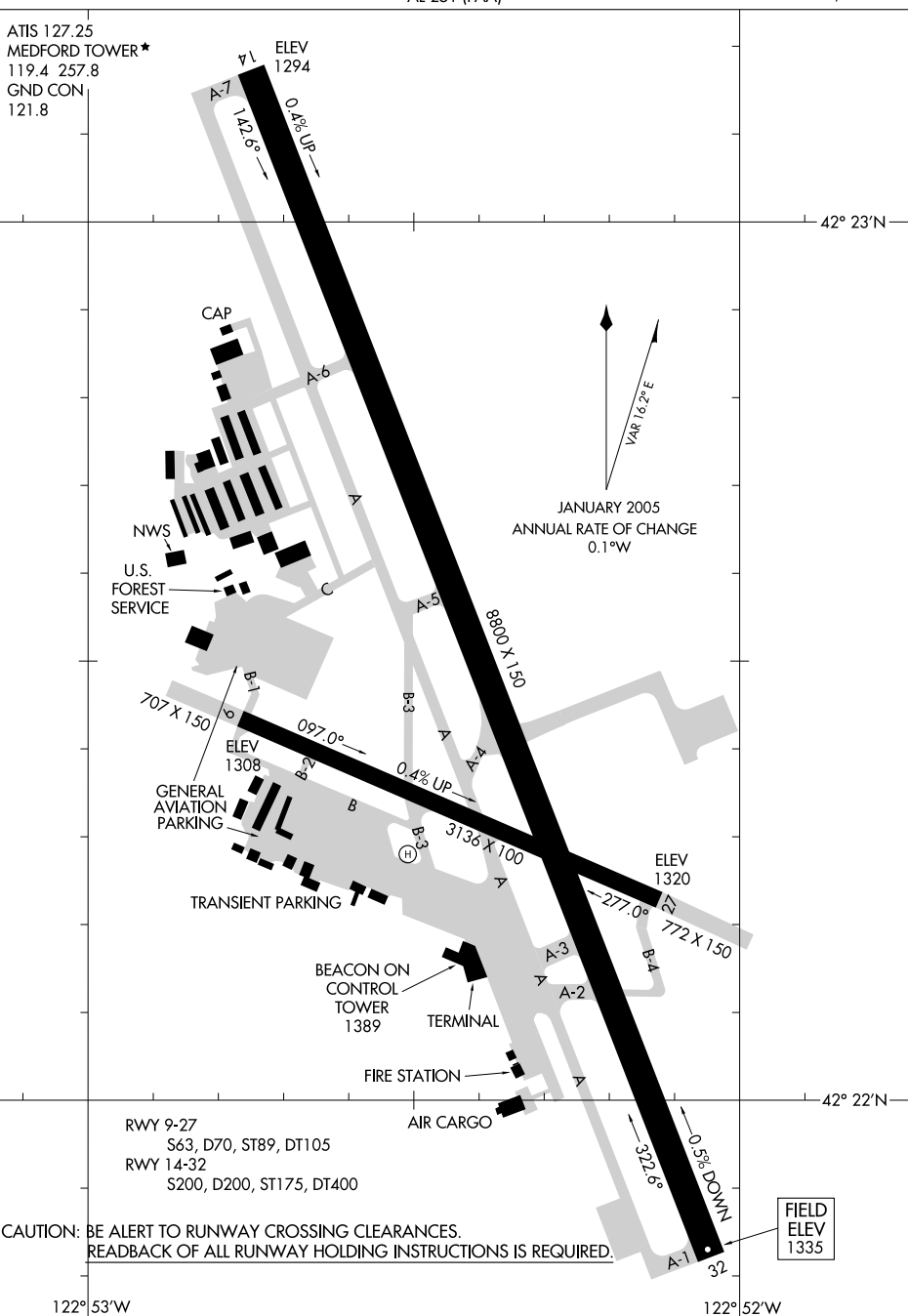
ASOS	PORTLAND APP CON	SEATTLE CENTER	McMINNVILLE RADIO	CLNC DEL	UNICOM
135.675	126.0 284.6 (NORTH)	125.8 291.7 (SOUTH)	122.45	118.35	123.0 (CTAF) 0



AIRPORT DIAGRAM

MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)
AL-251 (FAA) MEDFORD, OREGON

ATIS 127.25
MEDFORD TOWER ★
119.4 257.8
GND CON
121.8



NW-1, 03 JUN 2010 to 01 JUL 2010

BRUTE FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn direct to MEF NDB, depart MEF NDB 063° bearing outbound to BRUTE INT. Thence. . . .

TAKE-OFF RUNWAY 32: Climbing right turn via 060° heading and OED R-098 to BRUTE INT. Thence. . . .

. . . . via (transition) or (assigned route). Maintain 11000 or assigned altitude.

COPPO TRANSITION (BRUTE5.COPPO) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to COPPO DME.

CUTTR TRANSITION (BRUTE5.CUTTR) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to CUTTR DME.

DREWS TRANSITION (BRUTE5.DREWS) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to DREWS DME.

GRENA TRANSITION (BRUTE5.GRENA) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to JADUN DME. Then via OED R-138 to GRENA INT.

HANDY TRANSITION (BRUTE5.HANDY) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to HANDY DME.

LANKS TRANSITION (BRUTE5.LANKS) : From over BRUTE INT via OED R-098 to LANKS INT.

MOURN TRANSITION (BRUTE5.MOURN) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME. Then via OED R-333 to MOURN INT.

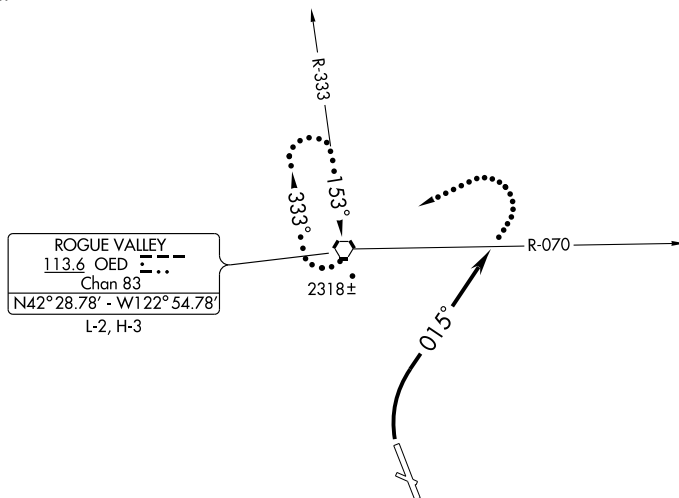
TALEM TRANSITION (BRUTE5.TALEM) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to FIBUR DME. Then via OED R-157 to TALEM DME.

UZEHE TRANSITION (BRUTE5.UZEHE) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME.

EAGLE THREE DEPARTURE

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MF'R)
SL-251 (FAA) MEDFORD, OREGON

ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3

TAKE-OFF MINIMUMS

RWY 32: 1700-3 or standard with minimum climb
of 300' per NM to 3000'.

RWYS 9, 14, and 27: Not authorized for this departure procedure.

ATC climb rate of 410' per NM until passing 6300 required.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 32: Climbing right turn to heading 015°, maintain 11000' or assigned altitude, expect radar vectors to assigned route.
Expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC crossing the OED R-070, turn left, proceed direct OED VORTAC, continue climb in holding pattern (NW, right turn, 153° inbound) to minimum crossing altitude/minimum enroute altitude before proceeding on course.

CTAF 119.4



NOTE: Chart not to scale

GNATS THREE DEPARTURE

SL-251 (FAA)

MEDFORD, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn via 340° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . .

TAKE-OFF RUNWAY 27: Climbing right turn via 285° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . .

TAKE-OFF RUNWAY 32: Climbing left turn via MEF NDB 269° bearing outbound to GNATS INT. Thence. . .

. . . via (transition) or (assigned route). Maintain 10,000' or assigned lower altitude.

COPPO TRANSITION (GNATS3.COPPO): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to COPPO DME.

DREWS TRANSITION (GNATS3.DREWS): From over GNATS INT via the MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to DREWS DME.

HANDY TRANSITION (GNATS3.HANDY): From over GNATS INT via the OED R-216 to OLECY INT, then via the OED 15 DME Arc to HANDY DME.


KOLER TRANSITION (GNATS3.KOLER): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via RBG R-154 to KOLER INT.

MOURN TRANSITION (GNATS3.MOURN): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to intercept OED R-333 to MOURN INT.

TALEM TRANSITION (GNATS3.TALEM): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to intercept OED R-157 to TALEM DME.

ILS or LOC/DME RWY 14

MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

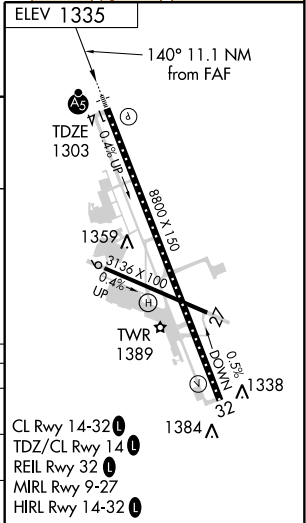
▼ ▲	For inoperative MALS, increase S-ILS 14 CAT B visibility to RVR 6000, CAT C visibility to 1½ mile, and CAT D visibility to 2 miles.	MALS 	MISSED APPROACH: Cat A climb to 2000; Cat B climb to 2300; Cat C climb to 2400; Cat D climb to 2500, then climbing right turn to 6400 via heading 350° and OED R-160 to OED VORTAC and hold, continue climb-in-hold to 6400.
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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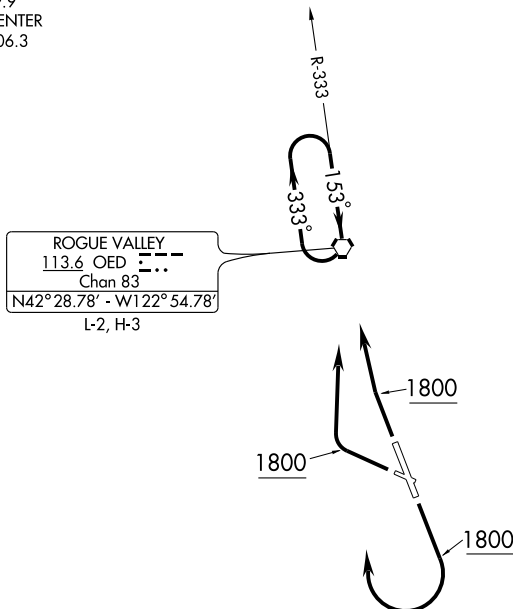


DME or RADAR REQUIRED FOR PROCEDURE ENTRY

Use I-MFR DME when on LOC course. One Minute Holding Pattern	Cat A 2000 Cat B 2300 Cat C 2400 Cat D 2500	6400 hdg 350°	OED R-160	OED
<div> <div>6300 ← 320°</div> <div>← 140° → 140° → 4990</div> <div>GS 3.00° TCH 58</div> <div>*LOC only</div> <div>5000</div> <div>*3600</div> <div>2700</div> </div>	SAMIE I-MFR 18.3	AMASE I-MFR 12.7	OSSAJ I-MFR 8.6	PUMIE I-MFR 5.8 LOM I-MFR 1.6
CATEGORY	A	B	C	D
S-ILS 14	1553/24 250 (300-½)	1634/40 331 (300-¾)	1753/50 450 (500-1)	1862-1½ 559 (600-1½)
S-LOC 14	1640/24 337 (400-½)	1800/24 497 (500-½)	1920/60 617 (600-1¼)	2000-1¼ 697 (700-1¼)
CIRCLING	2000-1	665 (700-1)	2000-1¼ 665 (700-1¼)	2140-2½ 805 (900-2½)



ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3

TAKE-OFF MINIMUMS

RWY 9: Not authorized.

RWY 14: Standard with a minimum climb of:

Cats A/B, 270' per NM to 3100', Cats C/D, 440' per NM to 4900.

RWY 27: Standard with minimum climb of 360' per NM to 3600.

RWY 32: Standard with a minimum climb of 300' per NM to 3000.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Not authorized.

TAKE-OFF RUNWAYS 14 and 27: Climb runway heading to 1800 then turn right. Thence. . . .

TAKE-OFF RUNWAY 32: Climb runway heading to 1800. Thence. . . .

. . . . climb direct to the OED VORTAC. Continue climb in OED holding pattern (NW, right turn, 153° inbound) at or above 7000' before proceeding on course.

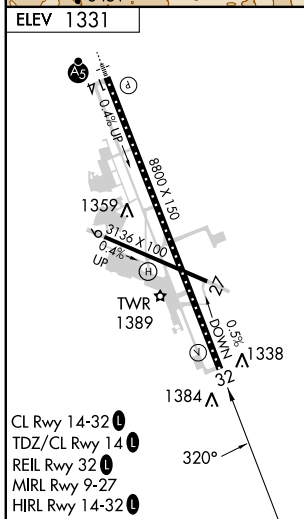
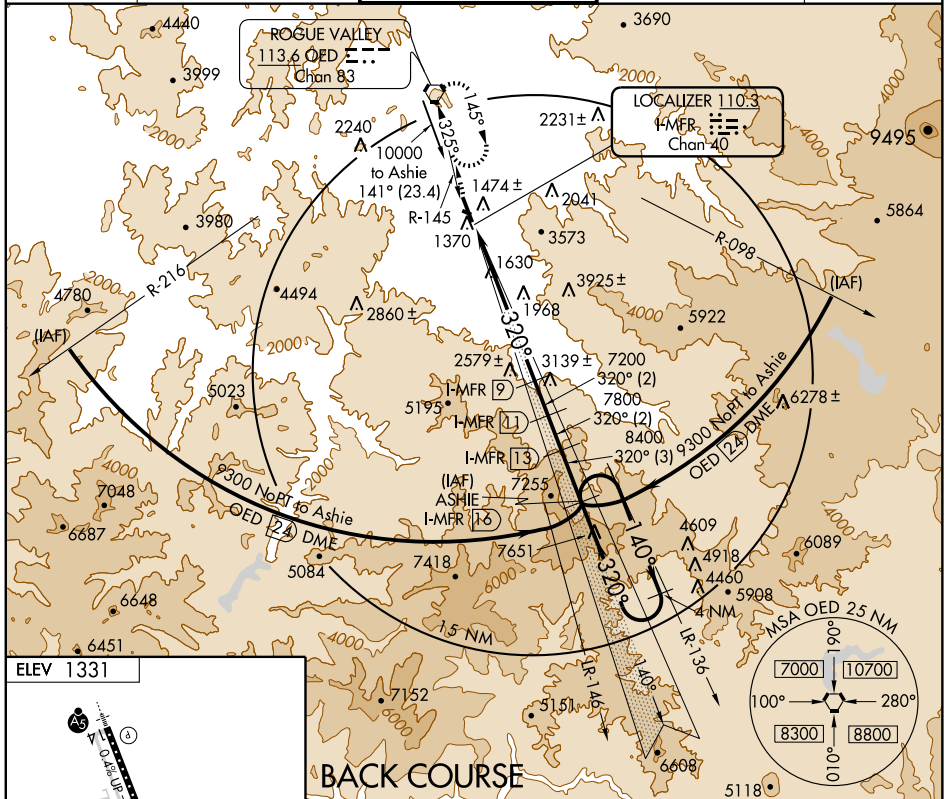
LOC/DME I-MFR 110.3 Chan 40	APP CRS 320°	Rwy Idg TDZE Apt Elev	N/A N/A 1331
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LOC/DME BC-B

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

<p>▼ ▲</p>	<p>MISSED APPROACH: Climb to 7600 direct OED VORTAC and hold, continue climb-in-hold to 7600.</p>
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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<p>BACK COURSE</p>		<p>7600 OED</p>		<p>ASHIE I-MFR 16</p>		<p>4 NM Holding Pattern</p>	
<p>Disregard glide slope indications</p>		<p>I-MFR 9</p>		<p>I-MFR 11</p>		<p>I-MFR 13</p>	
<p>I-MFR 0.5</p>		<p>7200</p>		<p>7800</p>		<p>8400</p>	
<p>0.6</p>		<p>8.5 NM</p>		<p>2 NM</p>		<p>2 NM</p>	
<p>3 NM</p>		<p>4 NM</p>		<p>Use I-MFR DME when on Localizer Course</p>		<p>140° → 9300</p>	
<p>320° ←</p>		<p>CATEGORY A</p>		<p>B</p>		<p>C</p>	
<p>3540-1¼</p>		<p>3540-1½</p>		<p>3540-3</p>		<p>2209 (2300-3)</p>	
<p>2209 (2300-1¼)</p>		<p>2209 (2300-1½)</p>		<p>2209 (2300-1½)</p>		<p>2209 (2300-1½)</p>	

APP CRS
325°

Rwy Idg
TDZE
Apt Elev

N/A
N/A
1335

RNAV (GPS)-D

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)



DME/DME RNP-0.3 not authorized.

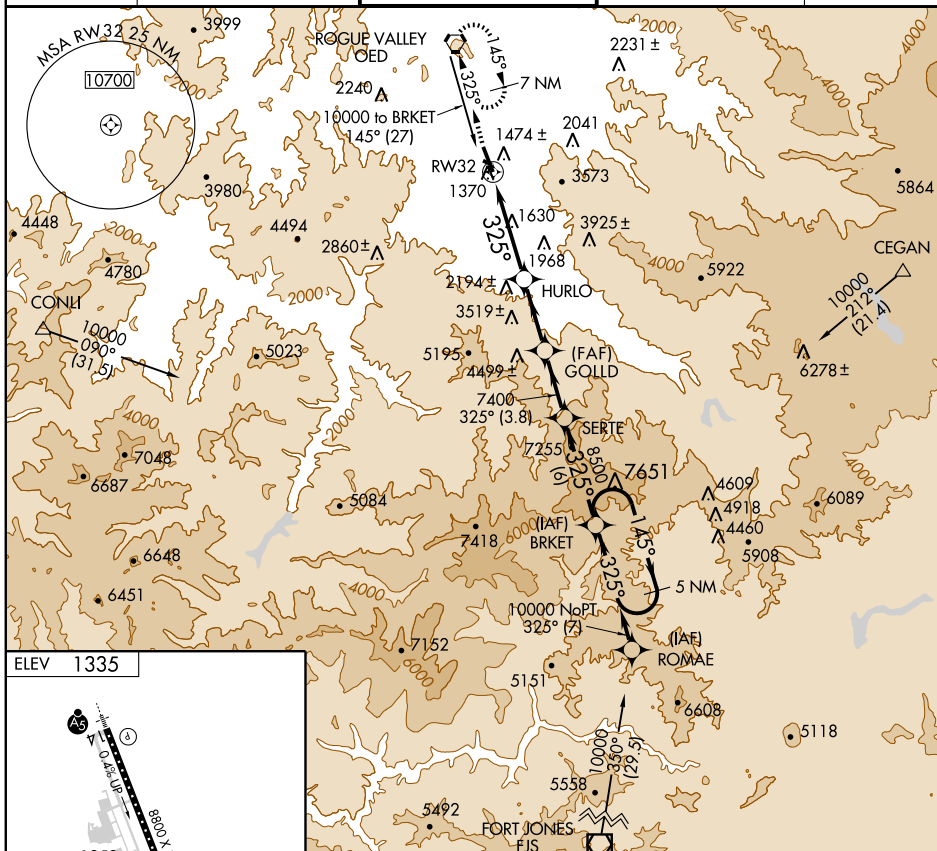
MISSED APPROACH: Climb to 7800 direct OED VORTAC and hold, continue climb-in-hold to 7800.

ATIS
127-25

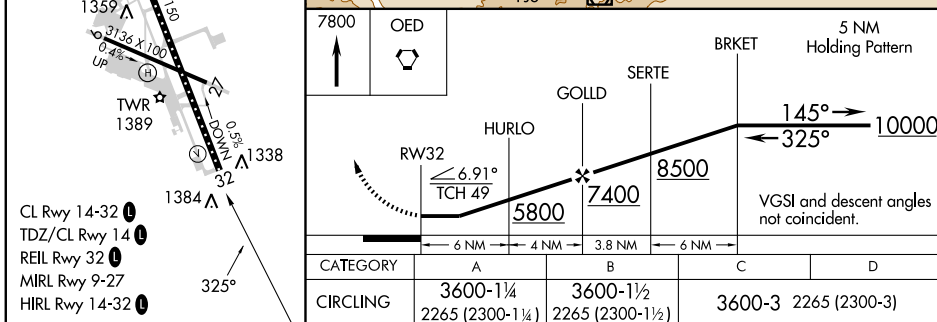
CASCADE APP CON★
124.3 379.9

MEDFORD TOWER★
119.4 (CTAF) **L** 257.8

GND CON
121.8

UNICOM
122.95

NW-1. 03 JUN 2010 to 01 JUL 2010



APP CRS
140°

Rwy Idg	8800
TDZE	1303
Apt Elev	1335

RNAV (GPS) RWY 14

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)



DME/DME RNP-0.3 NA.

MALSR



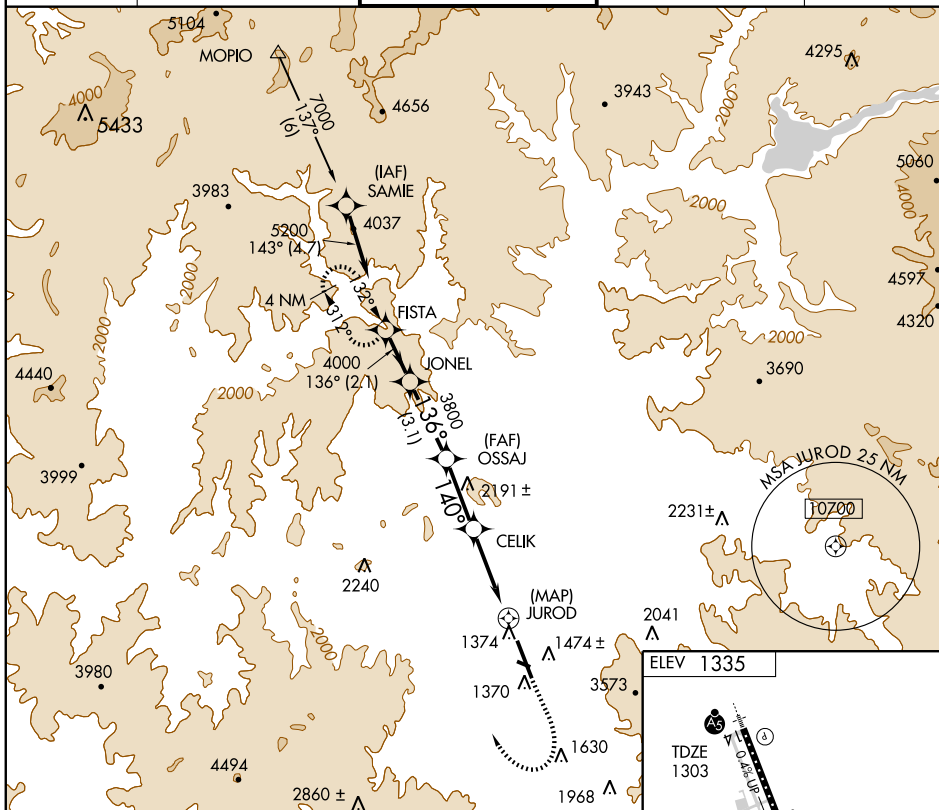
MISSED APPROACH: Climb to 3200 then climbing right turn to 5200 direct FISTA WP and hold.

ATIS
127.25

CASCADE APP CON★
124.3 379.9

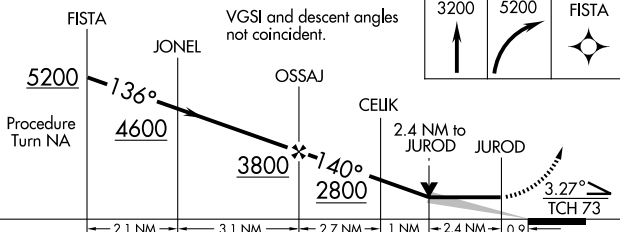
MEDFORD TOWER★
119.4 (CTAF) **L** 257.8

GND CON
121.8

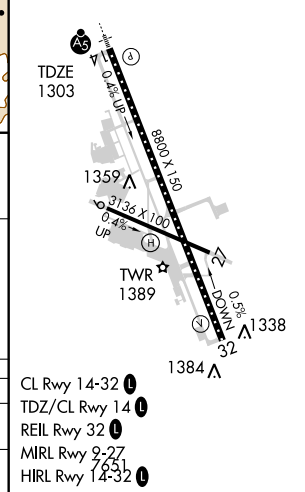
UNICOM
122.95

NW-1. 03 JUN 2010 to 01 JUL 2010

FISTA	VGSI and descent angles not coincident.
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CATEGORY	A	B	C	D
LNAV MDA	2400/40 1097 (1100-34)	2400/50 1097 (1100-1)	2400-2½	1097 (1100-2½)
CIRCLING	2400-1½ 1065 (1100-1¼)	2400-1½ 1065 (1100-1½)	2400-3	1065 (1100-3)



VORTAC OED 113.6 Chan 83	APP CRS 146°	Rwy Idg TDZE Apt Elev	N/A N/A 1335
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VOR-A

MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

A If local altimeter setting not received, procedure NA.

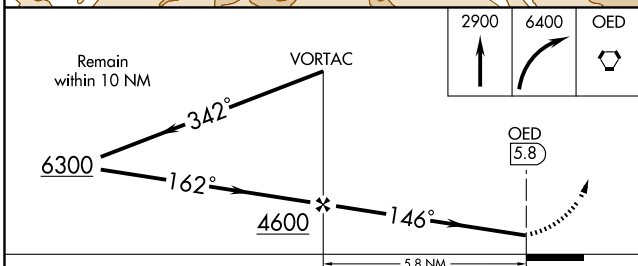
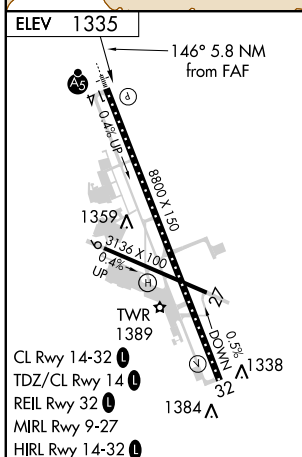
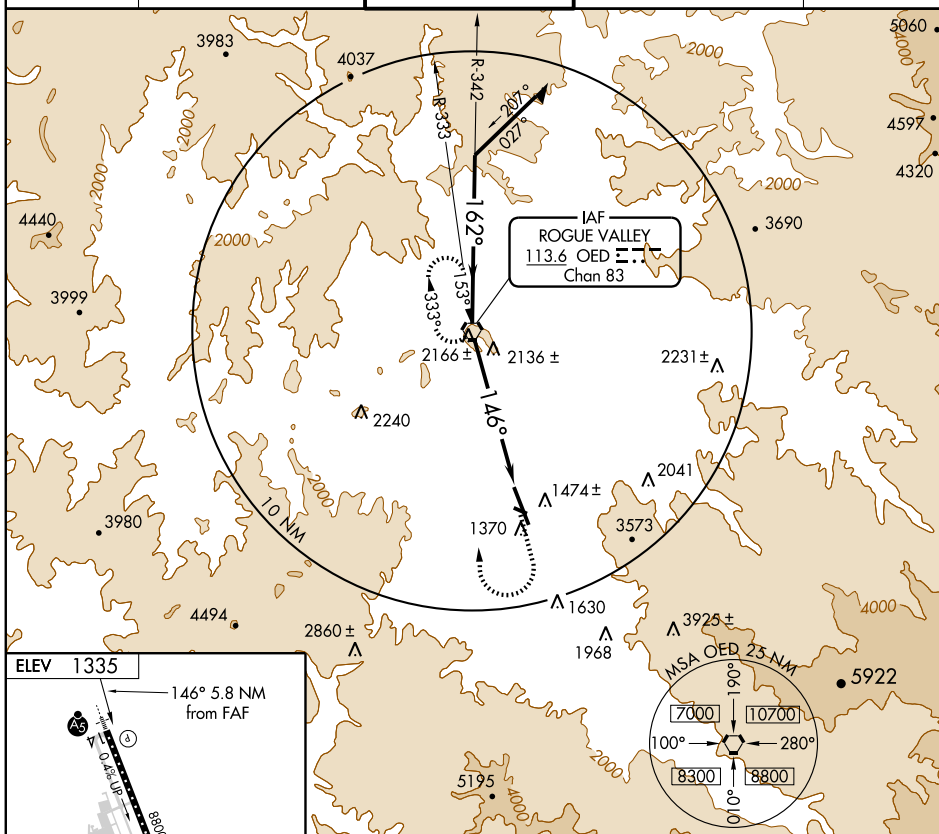
MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.

AT\$5433
127.25

CASCADE APP CON★
124.3 379.9

MEDFORD TOWER★
119.4 (CTAF) 257.8

GND CON
121.8

UNICOM
122.95

NW-1 03. JUN 2010 to 01. JUL 2010

VORTAC OED 113.6 Chan 83	APP CRS 325°	Rwy Idg TDZE Apt Elev	N/A N/A 1335
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VOR/DME-C
MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

VOR/DME-C

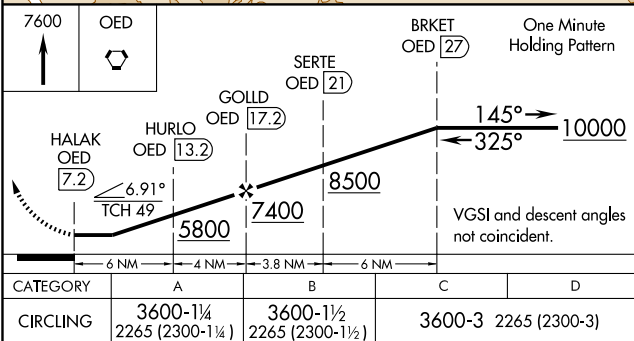
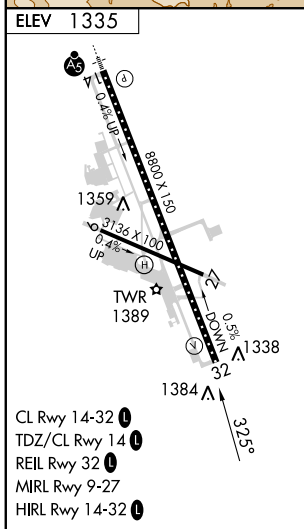
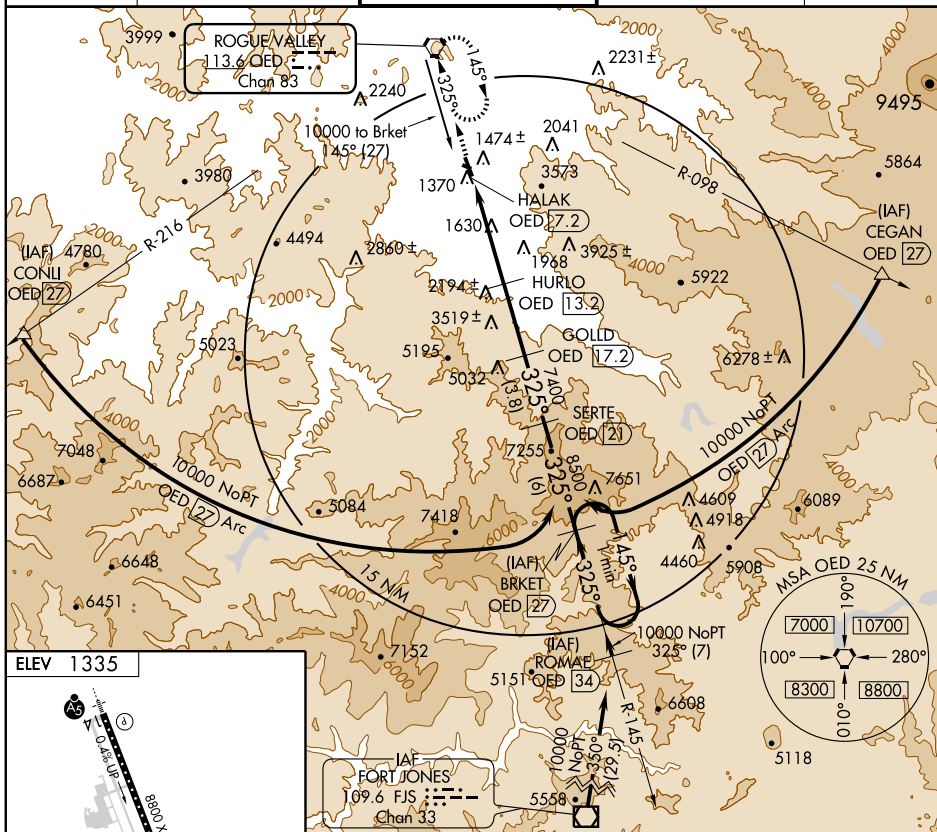
MISSED APPROACH: Climb to 7600 direct OED VORTAC and hold, continue climb-in-hold to 7600.

ATIS
127.25

CASCADE APP CON★
124.3 379.9

MEDFORD TOWER★
119.4 (CTAF) **L** 257.8

GND CON
121.8

UNICOM
122.95

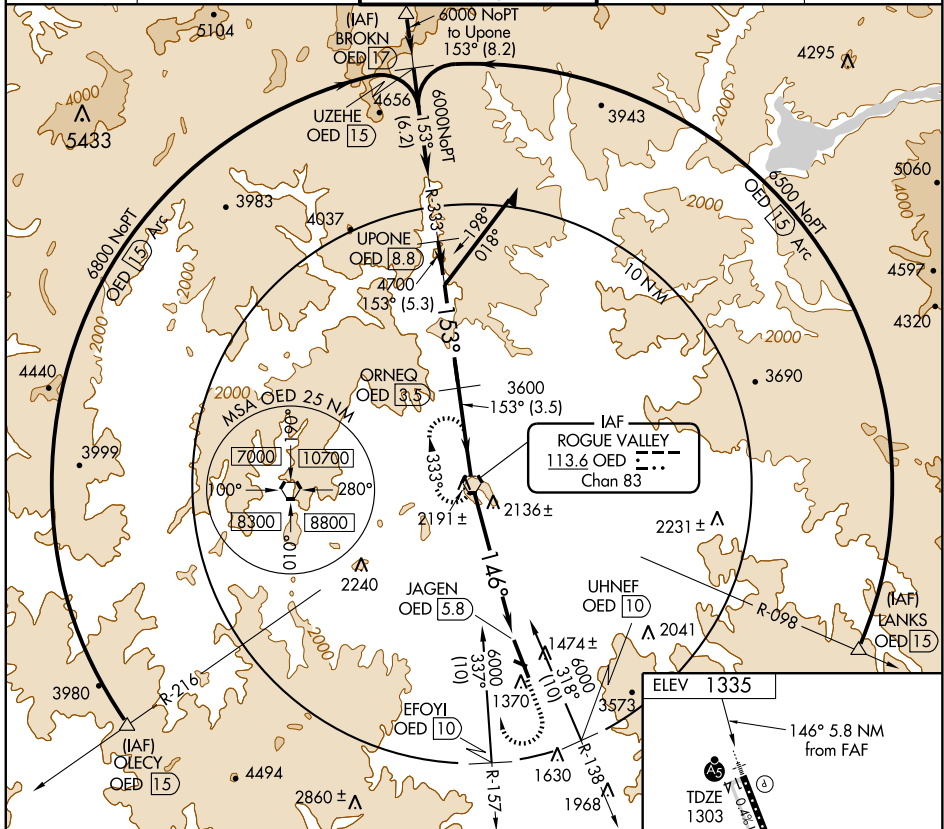
VORTAC OED	APP CRS	Rwy Idg	8800
113.6	146°	TDZE	1303
Chan 83		Apt Elev	1335

VOR/DME RWY 14

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

V A	Inoperative table does not apply to S-14 CAT A. For inoperative MALS increase S-14 CAT B visibility to 1½.	MALS AS	MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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<p>Remain within 12 NM</p> <p>VORTAC</p> <p>6000</p> <p>333°</p> <p>153°</p> <p>4700</p> <p>3600</p> <p>VGSi and descent angles not coincident.</p> <p>3.5 NM</p> <p>1.7 NM</p> <p>4.1 NM</p> <p>2900</p> <p>6400</p> <p>OED</p> <p>ORNEQ OED 3.5</p> <p>JAGEN OED 5.8</p> <p>3.63° TCH 73</p> <p>146°</p>				
CATEGORY	A	B	C	D
S-14	2680/60	1377 (1400-1½)	2680-2½	1377 (1400-2½)
CIRCLING	2680-1¼ 1345 (1400-1¼)	2680-1½ 1345 (1400-1½)	2680-3	1345 (1400-3)

CL Rwy 14-32

TDZ/CL Rwy 14

REIL Rwy 32

MIRL Rwy 9-27

HIRL Rwy 14-32

LOC I-ONP	APP CRS	Rwy Idg	5398
111.5	158°	TDZE	151
		Apt Elev	160

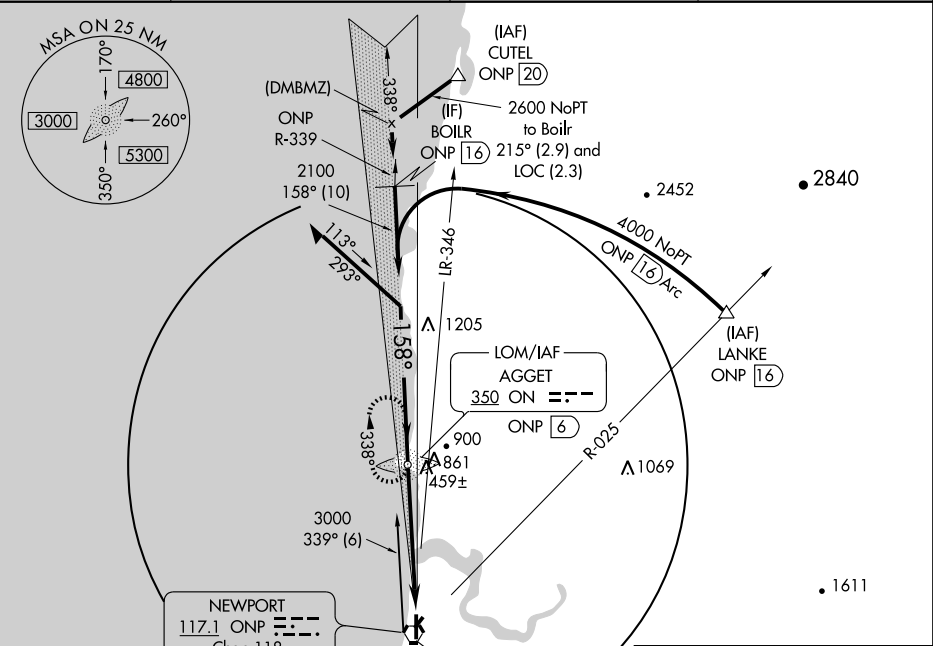
▼

▲ NA

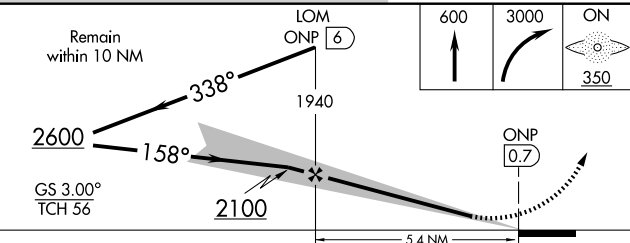
MALSR

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct AGGET LOM/ONP 6 DME and hold.

AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF)
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ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 16		351-3/4 200 (200-3/4)		
S-LOC 16	720-3/4 569 (600-3/4)		720-1 1/2 569 (600-1 1/2)	720-1 3/4 569 (600-1 3/4)
CIRCLING	880-1 720 (800-1)		880-2 720 (800-2)	960-2 1/2 800 (800-2 1/2)

ELEV 160

158° 5.4 NM from FAF

196 ±

209 ±

201 ±

TDZE 151

180 ±

34

5398

051 x 865

1.0% Up

3001 x 75

REIL Rwy 34

MIRL Rwy 2-20

HIRL Rwy 16-34

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5398
158°	TDZE	151
	Apt Elev	160

RNAV (GPS) RWY 16

NEWPORT MUNI (ONP)

T Inoperative table does not apply to LNAV/VNAV.
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
 Baro-VNAV NA below -15°C (5°F).

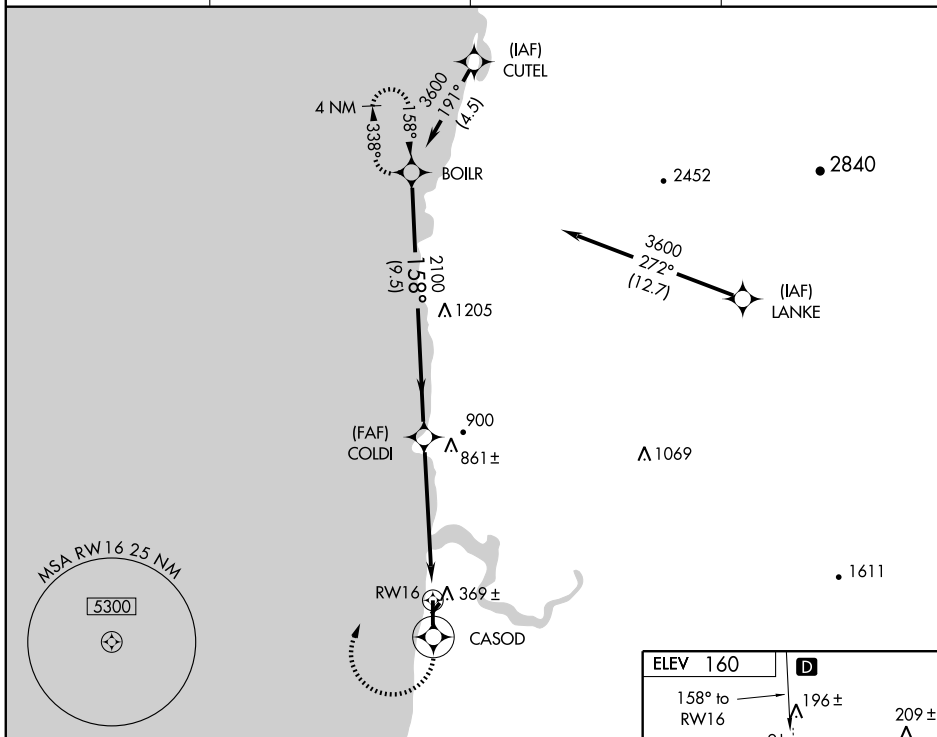
MALSR

MISSED APPROACH: Climb to 800 via 158° course to CASOD WP then climbing right to 3600 direct BOILR WP and hold.

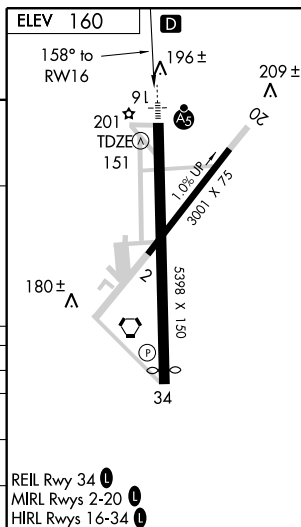
AWOS-3
133.9

SEATTLE CENTER
125.8 291.7

MCMINNVILLE RADIO
122.5

UNICOM
122.8 (CTAF) **L**


CATEGORY	A	B	C	D
GLS PA DA	NA			
INAV/ VNAV	620-1½		469 (500-1½)	
INAV MDA	720-¾ 569 (600-¾)		720-1½ 569 (600-1½)	720-1¾ 569 (600-1¾)
CIRCLING	880-1½ 720 (800-1½)		880-2 720 (800-2)	960-2½ 800 (800-2½)



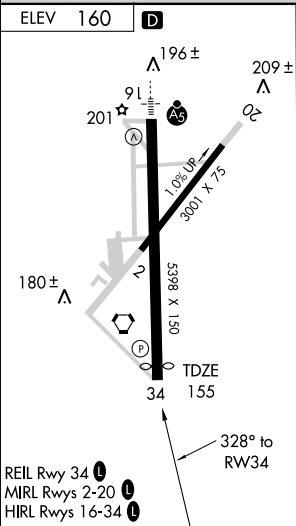
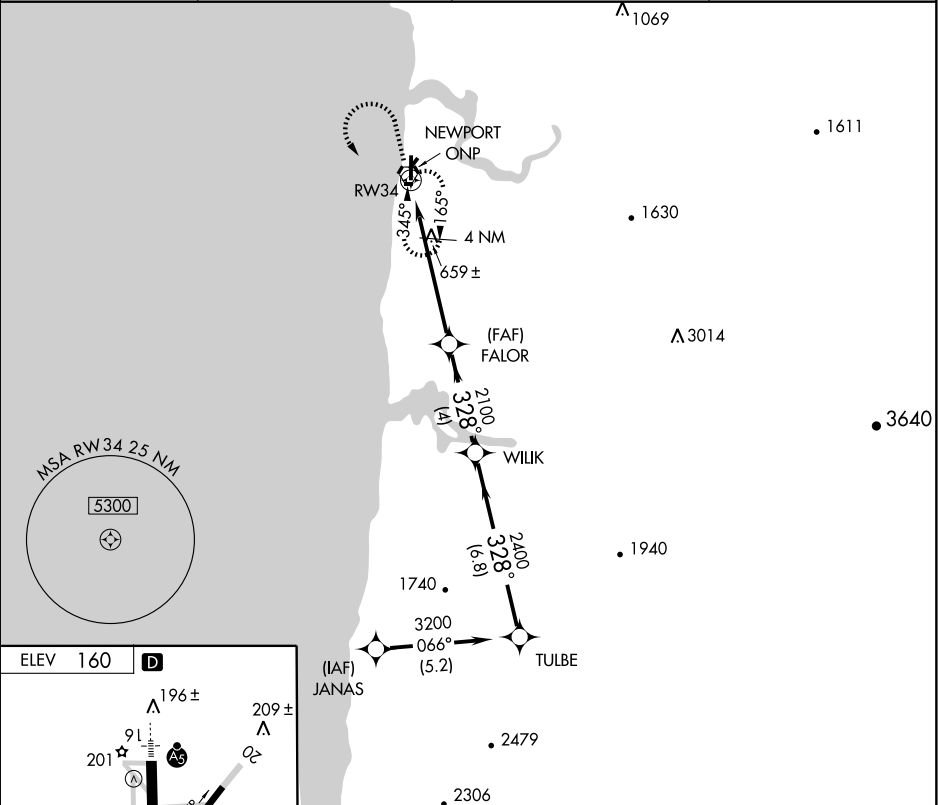
APP CRS	Rwy Idg	5098
328°	TDZE	155
	Apt Elev	160


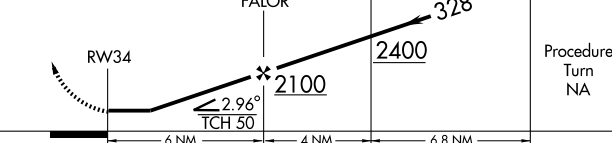
RNAV (GPS) RWY 34

NEWPORT MUNI (ONP)

 NA	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 2500, then climbing left turn to 4000 direct ONP VORTAC and hold.
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AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 
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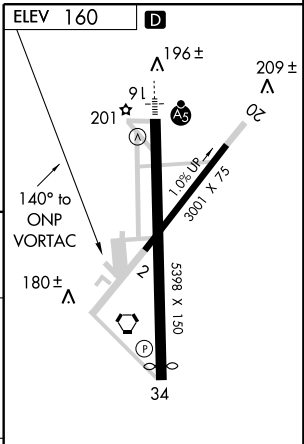
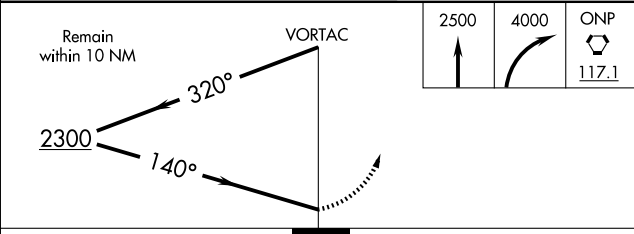
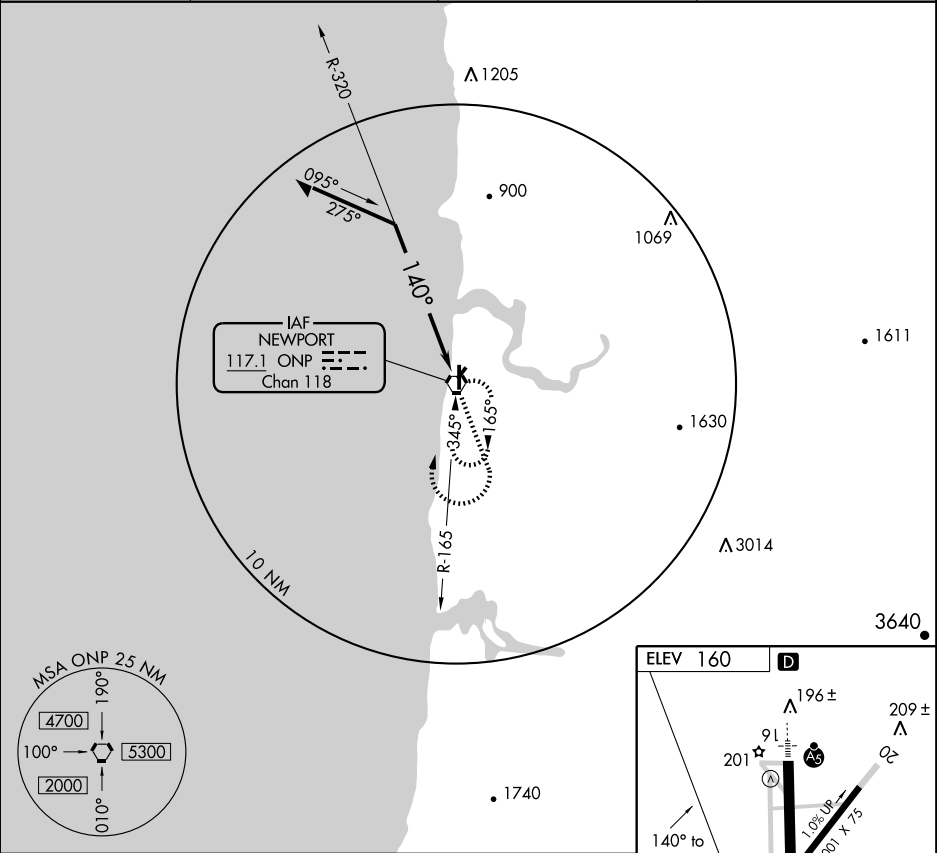
				
				
CATEGORY	A	B	C	D
LNAV MDA	920-1 765 (800-1)	920-1¼ 765 (800-1¼)	920-2¼ 765 (800-2¼)	920-2½ 765 (800-2½)
CIRCLING	920-1 760 (800-1)	920-1¼ 760 (800-1¼)	920-2¼ 760 (800-2¼)	960-2½ 800 (800-2½)

VORTAC ONP 117.1 Chan 118	APP CRS 140°	Rwy Idg TDZE Apt Elev	N/A N/A 160
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VOR-A
NEWPORT MUNI (ONP)

 NA	MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.
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AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 
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CATEGORY	A	B	C	D
CIRCLING	1160-1¼ 1000 (1000-1¼)	1160-1½ 1000 (1000-1½)	1160-3 1000 (1000-3)	

REIL Rwy 34 
MIRL Rwy 2-20 
HIRL Rwy 16-34 

VORTAC ONP	APP CRS	Rwy Idg	5398
<u>117.1</u>	166°	TDZE	151
Chan 118		Apt Elev	160

VOR/DME RWY 16
NEWPORT MUNI (ONP)

T
A NA Inoperative table does not apply to MALSF Rwy 16.

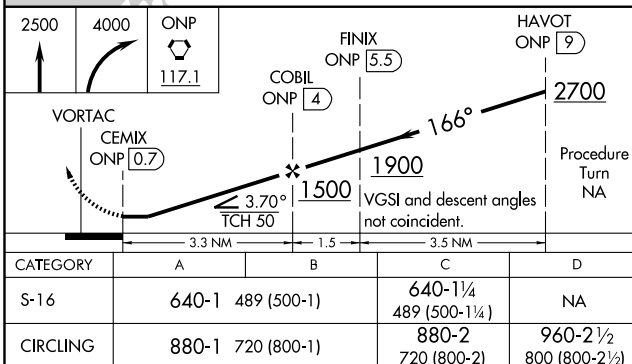
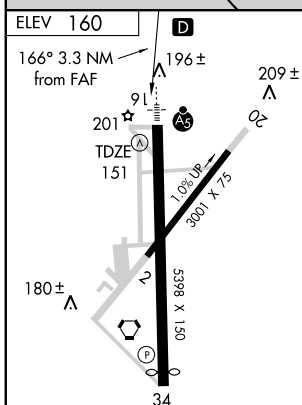
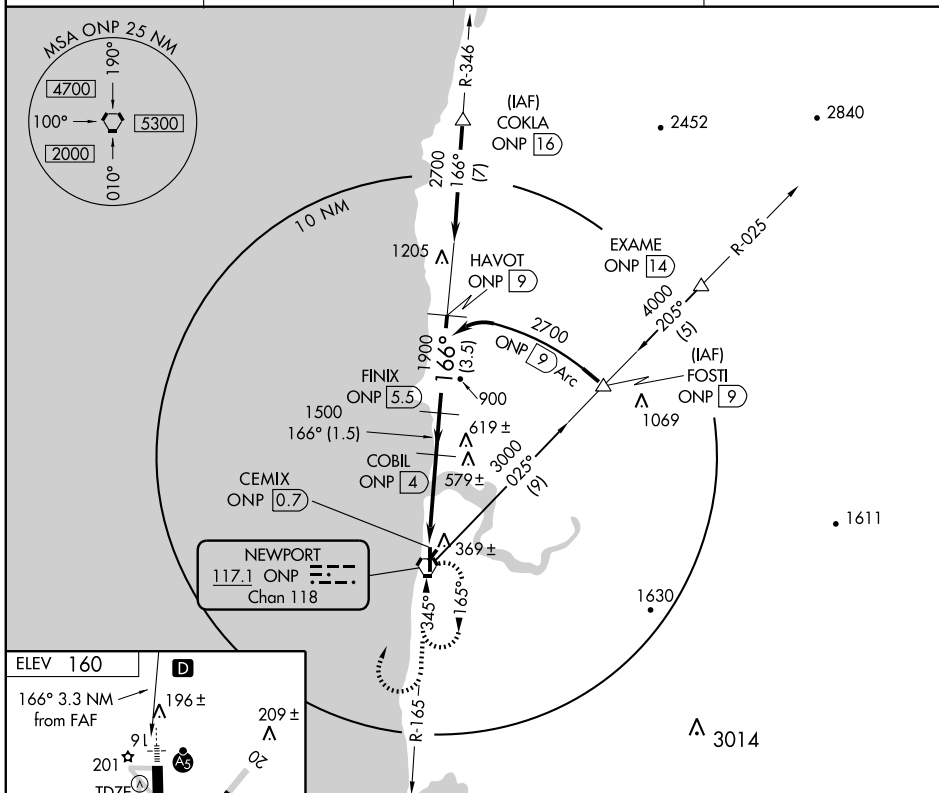
MALSR

MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.

AWOS-3
133.9

SEATTLE CENTER
125.8 291.7

MCMINNVILLE RADIO
122.5

UNICOM
122.8 (CTAF) **L**

REIL Rwy 34 **L**
MIRL Rwy 2-20 **L**
HIRL Rwy 16-34 **L**

VORTAC ONP 117.1 Chan 118	APP CRS 327°	Rwy Idg TDZE Apt Elev	5098 155 160
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VOR/DME RWY 34

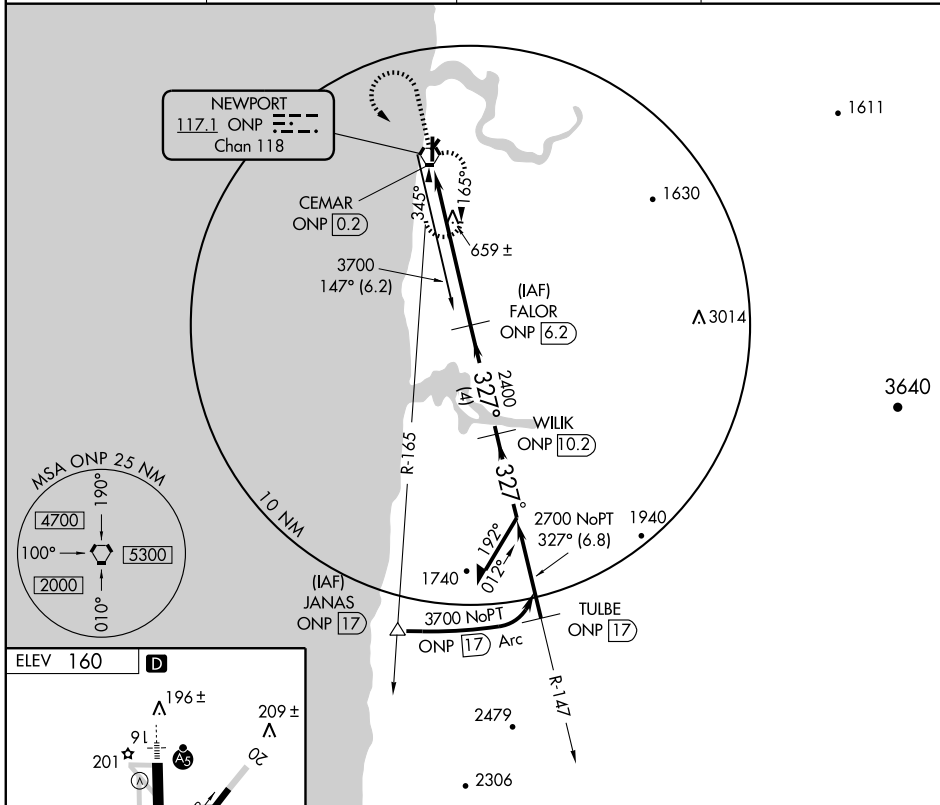
NEWPORT MUNI (ONP)



NA

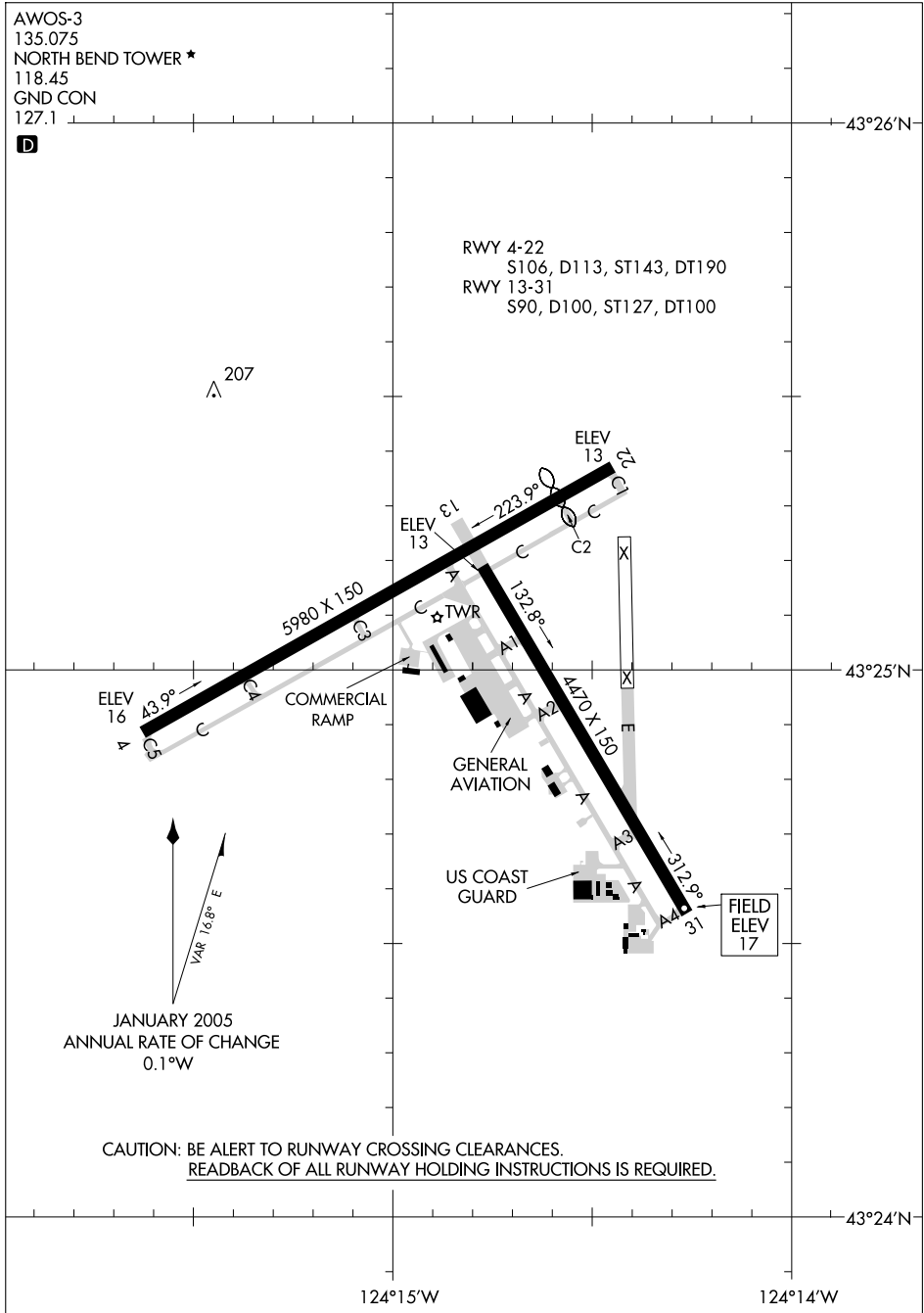
MISSED APPROACH: Climb to 2500 then climbing left turn to 4000 direct ONP VORTAC and hold.

AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0
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	2500	4000	ONP 117.1	FALOR ONP 6.2	Remain within 10 NM
			CEMAR ONP 0.2	WILK ONP 10.2	3700
			VORTAC	327°	2700
				3.43° TCH 50	2400
					VGSI and descent angles not coincident.
	0.2 NM	6 NM	4 NM		
CATEGORY	A	B	C	D	
S-34	920-1 765 (800-1)	920-1¼ 765 (800-1¼)	920-2¼ 765 (800-2¼)	920-2½ 765 (800-2½)	
CIRCLING	920-1 760 (800-1)	920-1¼ 760 (800-1¼)	920-2¼ 760 (800-2¼)	960-2½ 800 (800-2½)	


AIRPORT DIAGRAM

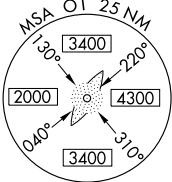
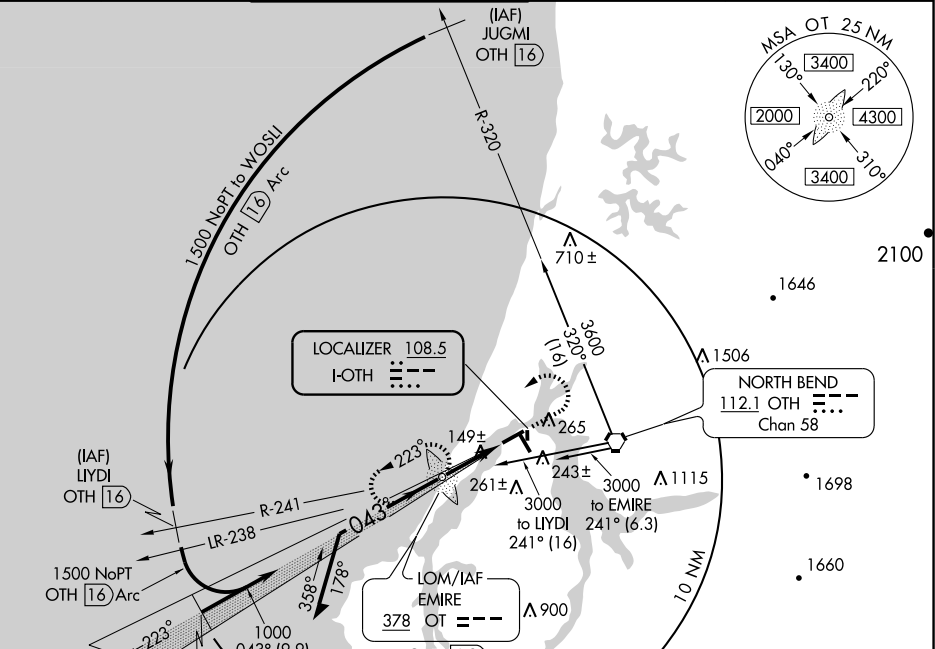
NORTH BEND/SOUTHWEST OREGON RGNL (OTH)
AL-929 (FAA) NORTH BEND, OREGON

LOC I-OTH	APP CRS	Rwy Idg	5321
108.5	043°	TDZE	16
		Apt Elev	17

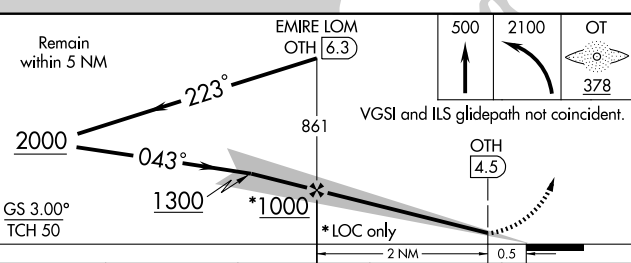
COPTER ILS or LOC RWY 4

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

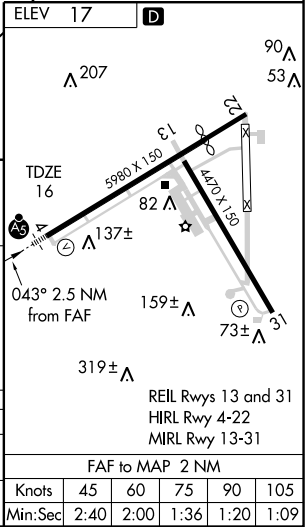
ADF required. If local altimeter setting not received, procedure NA. US Coast Guard use only.			MALSR 	MISSED APPROACH: Climb to 500, then climbing left turn to 2100 direct EMIRE LOM and hold, continue climb-in-hold to 2100.
AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1
			UNICOM 122.7	



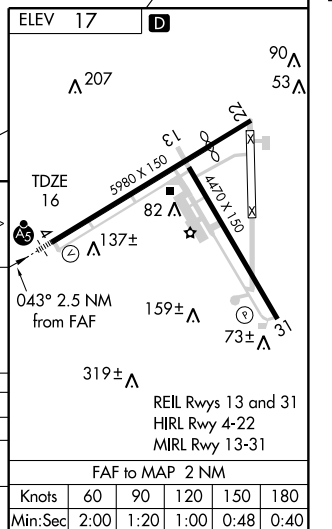
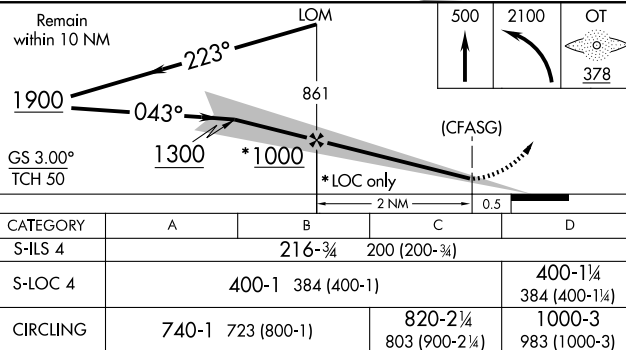
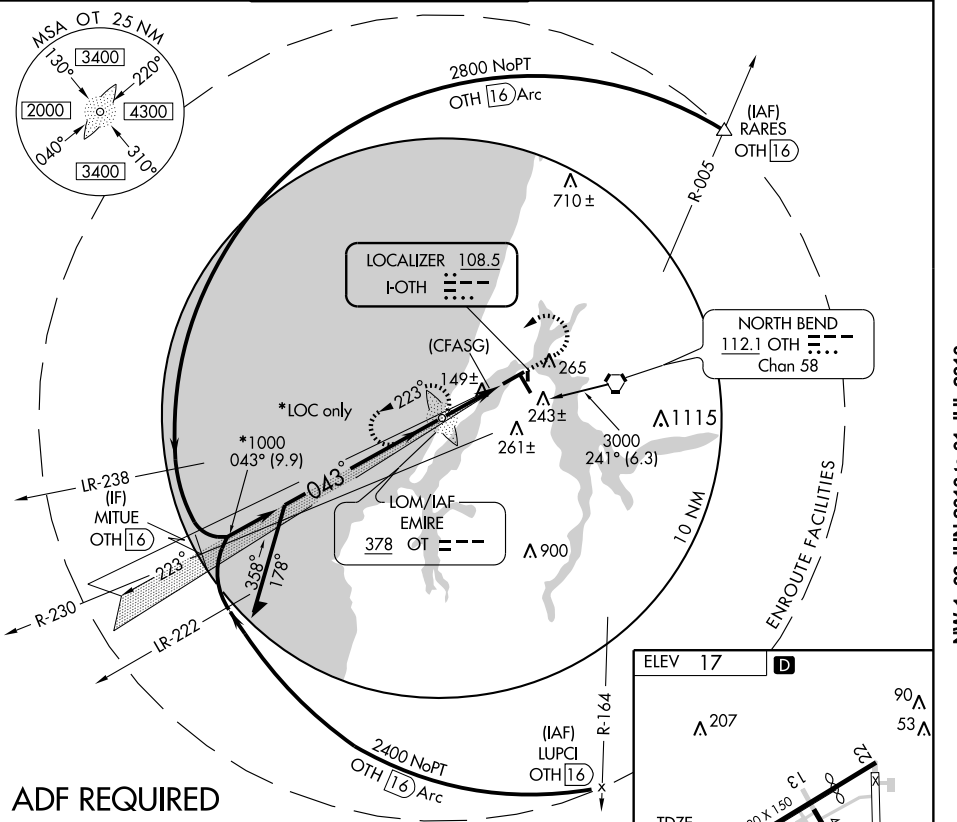
ADF or DME REQUIRED



CATEGORY	COPTER	B	C	D
H-ILS 4	216-½ 200 (200-½)		NA	
H-LOC 4	400-½ 384 (400-½)		NA	



LOC I-OTH 108.5		APP CRS 043°		Rwy Idg 5321 TDZE 16 Apt Elev 17		ILS or LOC RWY 4 NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)					
<div><div>T</div><div>A</div></div>		<div><div>MALSR</div><div><div>A5</div><div><div></div><div></div><div></div><div></div><div></div></div></div></div>		MISSED APPROACH: Climb to 500, then climbing left turn to 2100 direct EMIRE LOM and hold, continue climb-in-hold to 2100.							
AWOS-3 135.075		SEATTLE CENTER 121.4 254.35		SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0		MC MINNVILLE RADIO 122.4 255.4		GND CON 127.1		UNICOM 122.7	



NW-1, 03 JUN 2010 to 01 JUL 2010

LOM OT 378	APP CRS 043°	Rwy Idg TDZE Apt Elev	5321 16 17
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NDB or GPS RWY 4

NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)

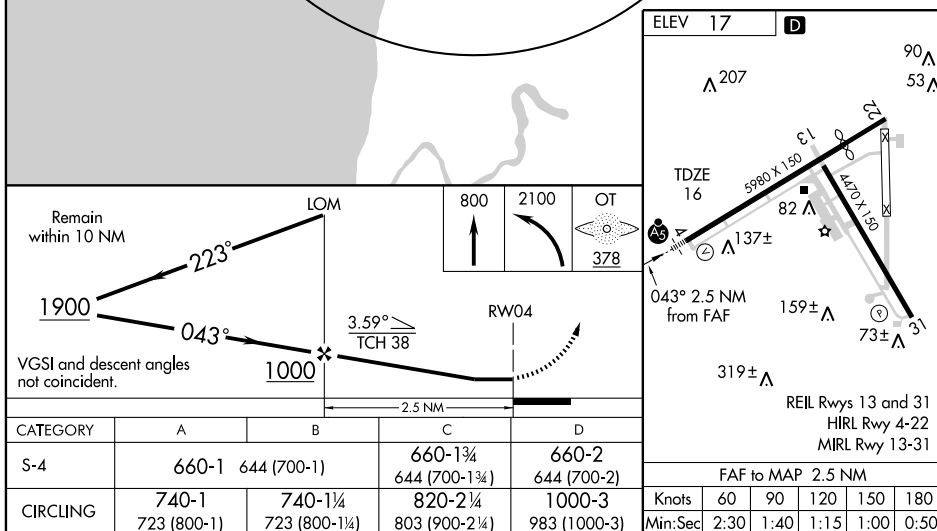
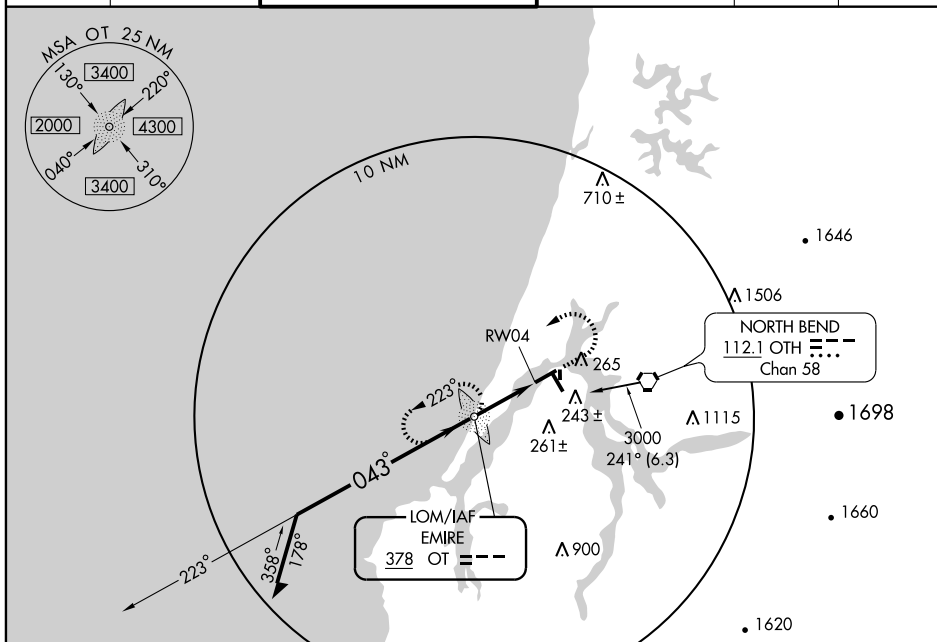


MALSR



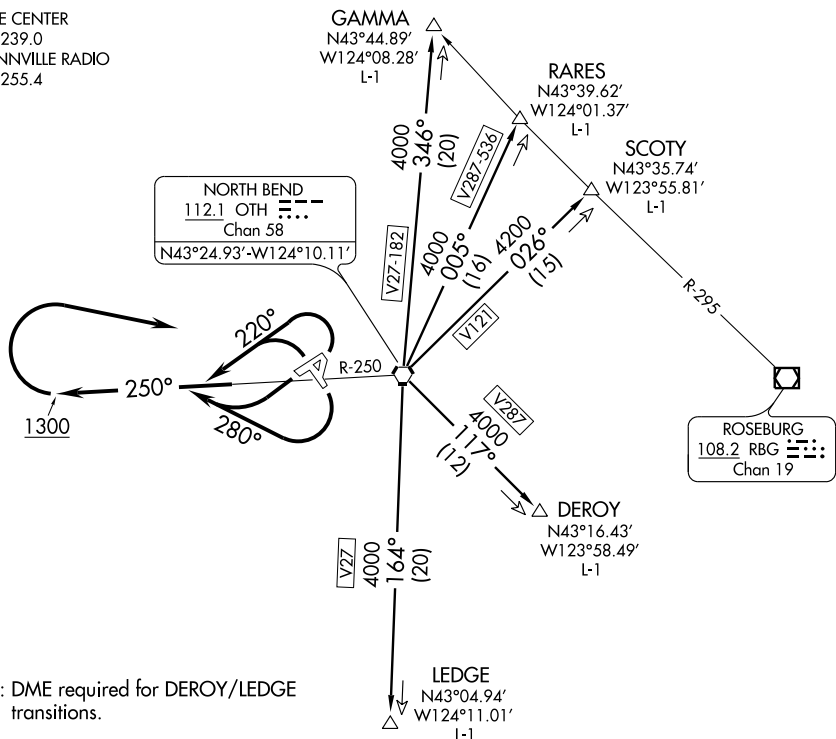
MISSED APPROACH: Climb to 800, then climbing left turn to 2100 direct EMIRE (OT) LOM and hold, continue climb-in-hold to 2100.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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NORTH BEND FIVE DEPARTURE

SEATTLE CENTER
121.4 239.0
MC MINNVILLE RADIO
122.4 255.4



NOTE: DME required for DEROY/LEDGE transitions.

TAKE-OFF MINIMUMS

Rwy 4: Standard with minimum climb of 475' per NM to 1200 or 900-3 with minimum climb of 300' per NM to 900.

Rwy 13: 400-1 with minimum climb of 330' per NM to 1200.

Rwy 22: Standard.

Rwy 31: 300-1¾ or Standard with minimum climb of 280' per NM to 300.

(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 31: Climbing left turn heading 220° and OTH R-250 thence. . .

TAKE-OFF RUNWAYS 13, 22: Climbing right turn heading 280° and OTH R-250 thence. . .

. . . continue climbing via OTH R-250 to 1300 then right turn direct OTH VORTAC, thence via assigned transition.

DEROY TRANSITION (OTH5.DEROY): From over OTH VORTAC via OTH R-117 to DEROY DME.

GAMMA TRANSITION (OTH5.GAMMA): From over OTH VORTAC via OTH R-346 to GAMMA INT.

LEDGE TRANSITION (OTH5.LEDGE): From over OTH VORTAC via OTH R-164 to LEDGE DME.

RARES TRANSITION (OTH5.RARES): From over OTH VORTAC via OTH R-005 to RARES INT.

SCOTY TRANSITION (OTH5.SCOTY): From over OTH VORTAC via OTH R-026 to SCOTY INT.

TAKE-OFF OBSTACLE NOTES

Rwy 4: OL on ant. 383' from DER, 207' right of centerline, 22' AGL/35' MSL.

Ship 1000' from DER, on centerline, up to 140' MSL.

OLs on bridge beginning 1886' from DER, 621' left of centerline, up to 93' AGL/93' MSL.

Bridge beginning 4728' from DER, 580' right of centerline, 265' AGL/265' MSL.

OLs on bridge beginning 4741' from DER, 948' right of centerline, up to 268' AGL/268' MSL.

Transmission tower, 5031' from DER, 677' right of centerline, 213' AGL/216' MSL.

Trees beginning 1.2 NM from DER, 409' left of centerline, up to 150' AGL/549' MSL.

Trees beginning 1.5 NM from DER, 1396' right of centerline, up to 150' AGL/629' MSL.

Bldgs beginning 1.7 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL.

Rwy 13: Bushes beginning 38' from DER, 175' left of centerline, up to 16' AGL/33' MSL.

Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL.

Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL.

Trees beginning 346' from DER, 17' right of centerline, up to 150' AGL/349' MSL.

Bldgs beginning 504' from DER, 243' right of centerline, up to 86' AGL/106' MSL.

Trees beginning 628' from DER, 6' left of centerline, up to 150' AGL/298' MSL.

Ant. on bldg 712' from DER, 554' right of centerline, up to 51' AGL/68' MSL.

Poles beginning 880' from DER, 13' right of centerline, up to 136' AGL/236' MSL.

Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL.

Pole 1 NM from DER, 159' left of centerline, up to 121' AGL/221' MSL.

Rwy 22: Ship 4050' from DER, on centerline, up to 140' MSL.

Rwy 31: Ship 1000' from DER, on centerline, up to 140' MSL.

Trees beginning 5037' from DER, 15' left of centerline, up to 92' AGL/232' MSL.

Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

VORTAC OTH 112.1 Chan 58	APP CRS 254°	Rwy Idg TDZE Apt Elev	N/A N/A 17
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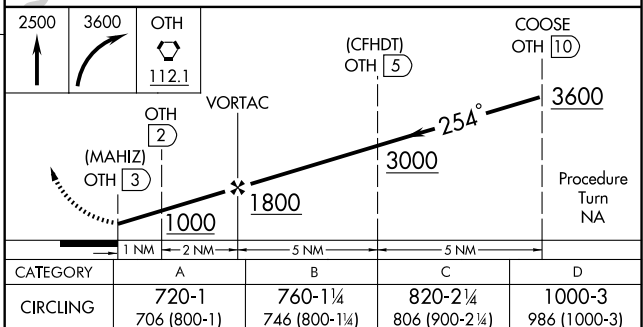
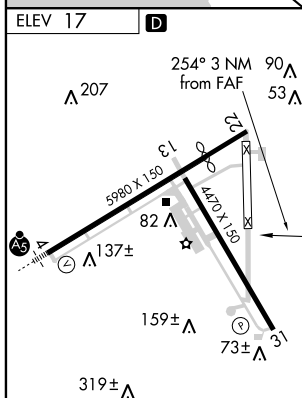
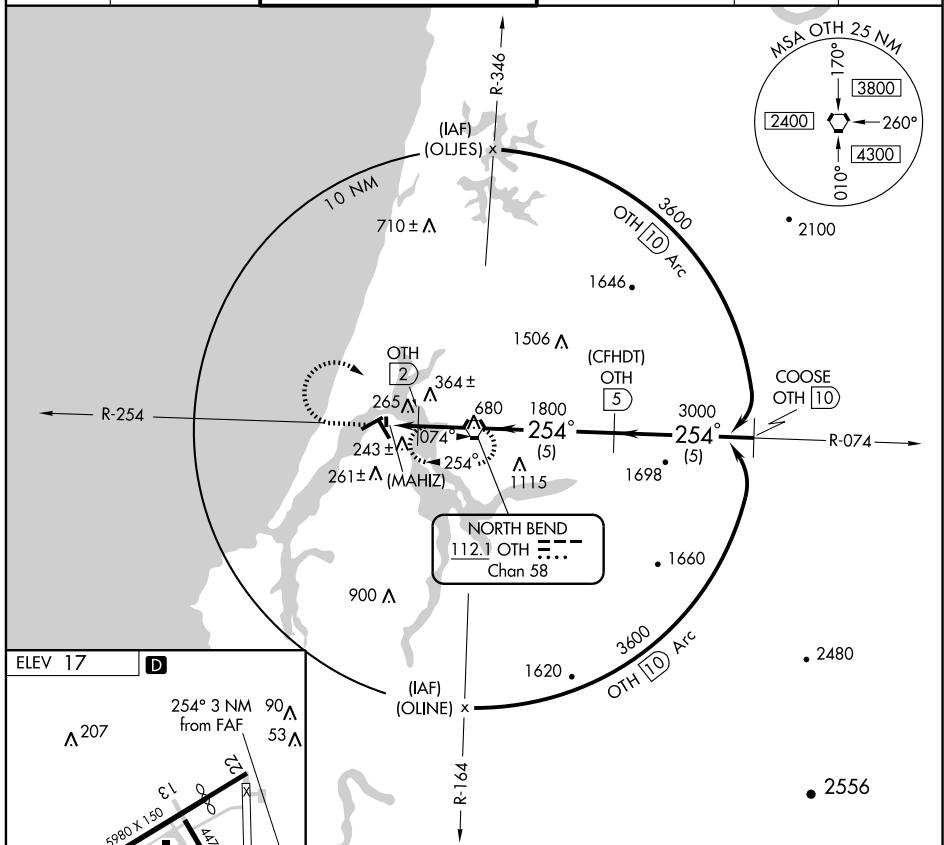
VOR/DME or GPS-B

NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)



MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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AL-929 (FAA)

VORTAC OTH 112.1 Chan 58	APP CRS 070°	Rwy Idg 5321 TDZE 12 Apt Elev 17
----------------------------------------------	------------------------	-------------------------------------------------------------

VOR/DME RWY 4

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

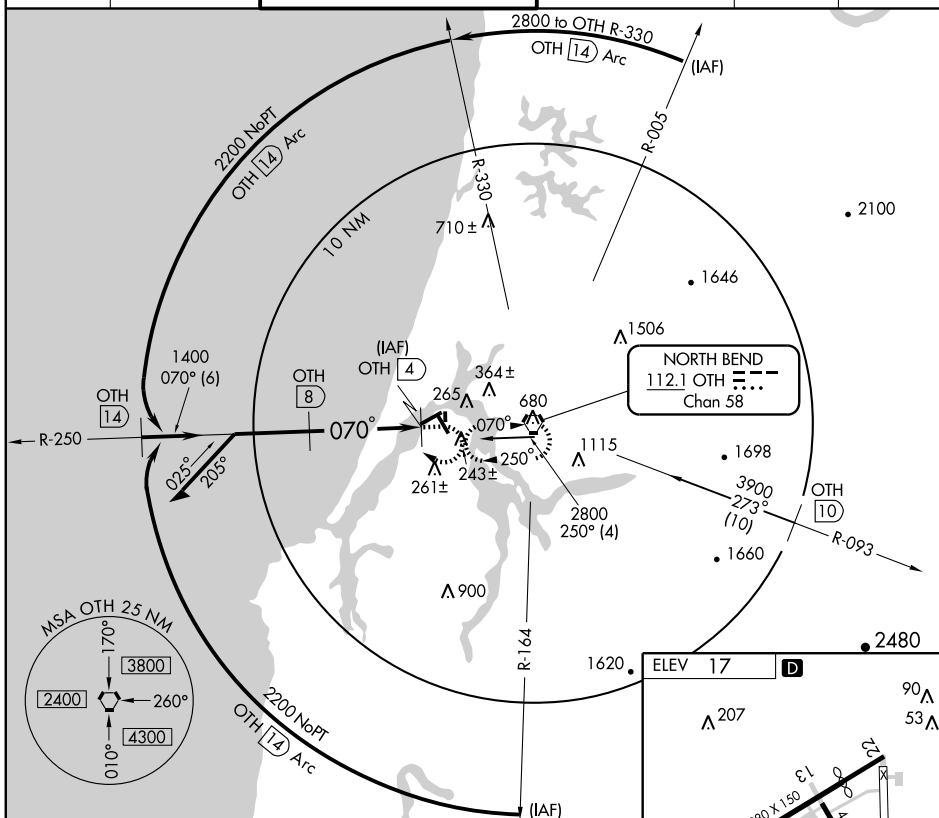


MALSR

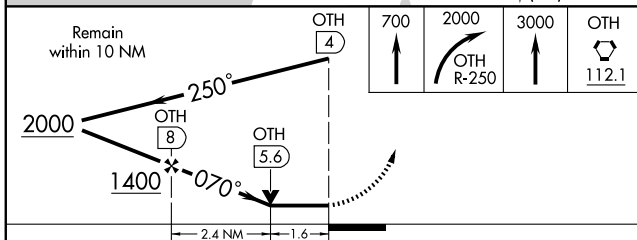


MISSED APPROACH: Climb to 700, then climbing right turn to 2000 via OTH R-250; then climb to 3000 direct OTH VORTAC and hold.

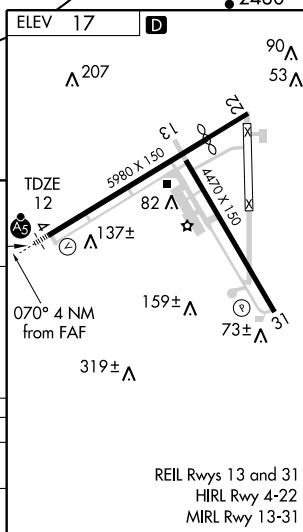
AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF) Q	122.4 255.4	127.1	122.7



NW-1. 03 JUN 2010 to 01 JUL 2010



CATEGORY	A	B	C	D
S-4	540-1 528 (600-1)		540-1½ 528 (600-1½)	540-1¾ 528 (600-1¾)
CIRCLING	720-1 706 (800-1)	760-1¼ 746 (800-1¼)	820-2¼ 806 (900-2¼)	1000-3 986 (1000-3)

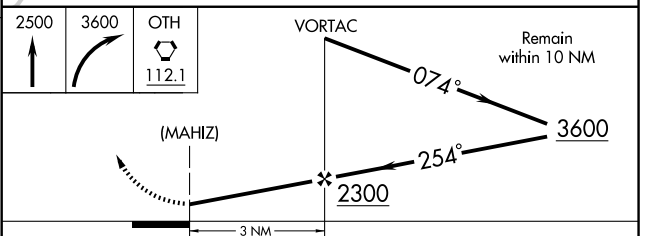
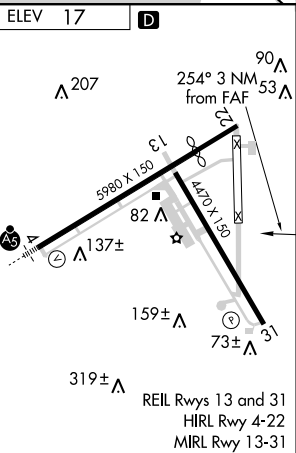
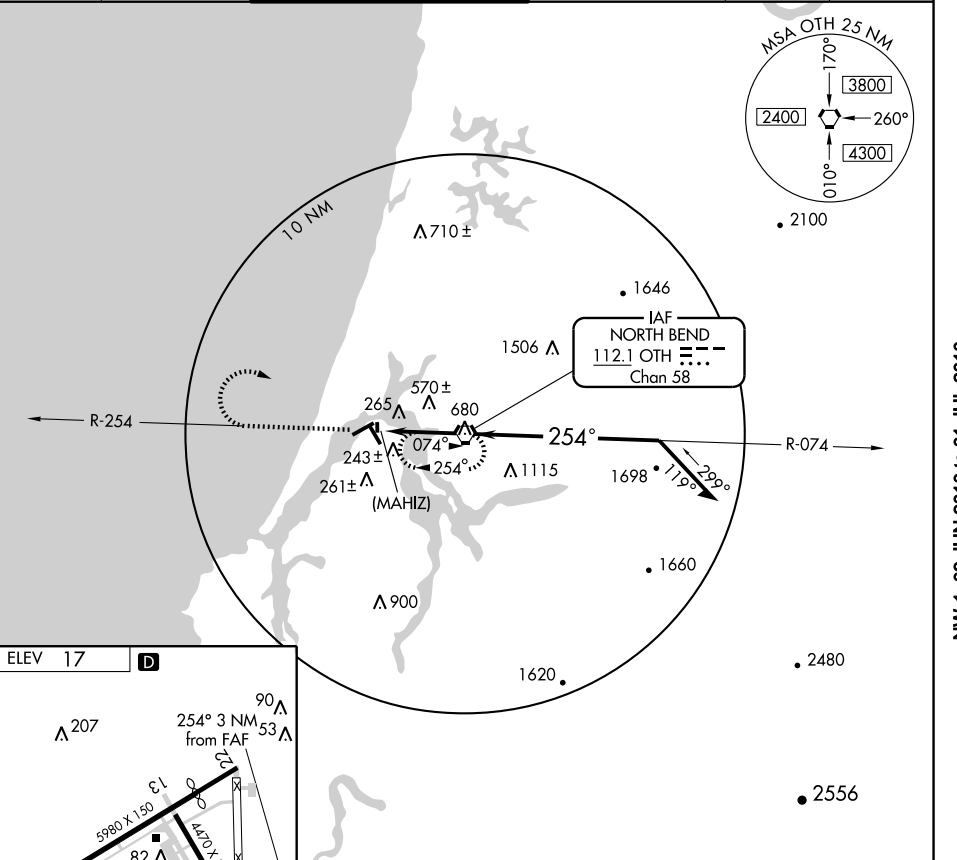


▼

▲

MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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FAF to MAP 3 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1100-1¼ 1086 (1100-1¼)	1100-1½ 1086 (1100-1½)	1100-3	1086 (1100-3)
Min:Sec	3:00	2:00	1:30	1:12	1:00					

NW-1. 03 JUN 2010 to 01 JUL 2010

NDB ONO
305

APP CRS
335°

Rwy Idg	5011
TDZE	2193
Apt Elev	2193

NDB RWY 32
ONTARIO MUNI (ONO)

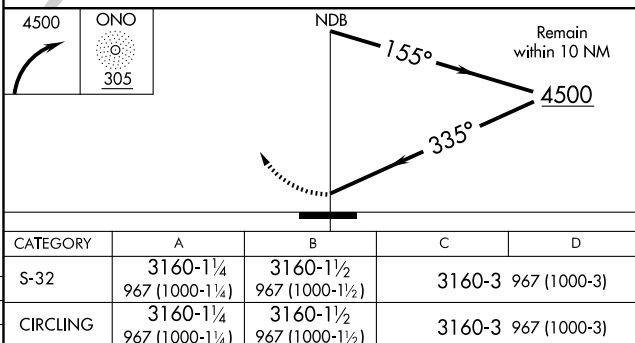
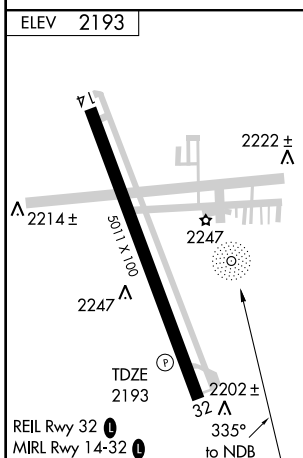
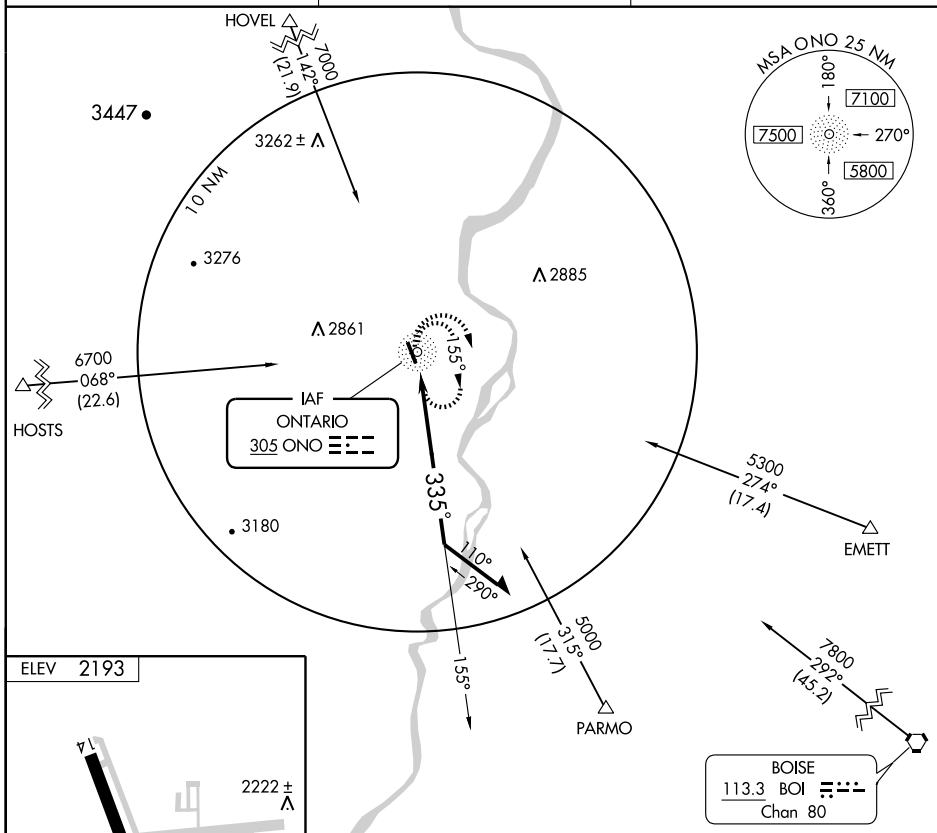


Visibility reduction by helicopters NA.
When local altimeter setting not received, use Caldwell
altimeter setting and increase MDA 100 feet.

MISSED APPROACH: Climbing right turn to 4500 in ONO NDB holding pattern.

ASOS
135.275

SALT LAKE CENTER
128.05 387.15

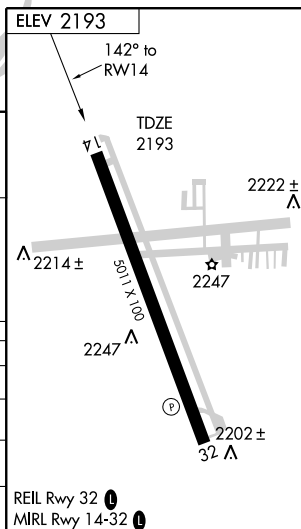
UNICOM
122.8 (CTAF) **L**

RNAV (GPS) RWY 14
ONTARIO MUNI (ONO)

MISSED APPROACH: Climb to 9000 direct TUCUB and right turn via 241° track to LUYID and right turn via 342° track to HOVEL and hold.

The map shows the flight path of the aircraft on 11/1/68. The route starts at PIYID (9000, 042° (10)) and proceeds through several waypoints: CEYTA (5500, 141° (4.2)), JIRBU (5000, 142° (3.2)), KODGE (4500, 142° (3.2)), ZEMTI (3139 ±), TEMAE (2458 ±), and RW14 (ELEV 2193). The map also shows the location of the aircraft at the time of the crash, near TUCUB (3276, 241°). The map includes a scale bar (7 NM) and a compass rose (NE, E, S, W). The map also shows the location of the aircraft at the time of the crash, near TUCUB (3276, 241°). The map includes a scale bar (7 NM) and a compass rose (NE, E, S, W). The map also shows the location of the aircraft at the time of the crash, near TUCUB (3276, 241°).

Procedure Turn NA		JIRBU		9000 ↑	TUCUB ✧	241° ↷	LUYID ✧	342° ↷	HOVEL △
5500		KODGE		ZEMTI		TEMAE 3.8 NM to RW14		*LNAV only	
142°		5000		4500		3420*		RW14	
GS 3.00° TCH 40		3.2 NM		3.2 NM		3.2 NM		3.8 NM	
CATEGORY	A		B		C		D		
LPV DA			2744-2		551 (600-2)				
LNAV/ VNAV			2781-2		588 (600-2)				
LNAV MDA	2720-1		527 (600-1)		2720-1½ 527 (600-1½)		2720-1¾ 527 (600-1¾)		
CIRCLING	2720-1 527 (600-1)		2760-1 567 (600-1)		2760-1½ 567 (600-1½)		2760-2 567 (600-2)		



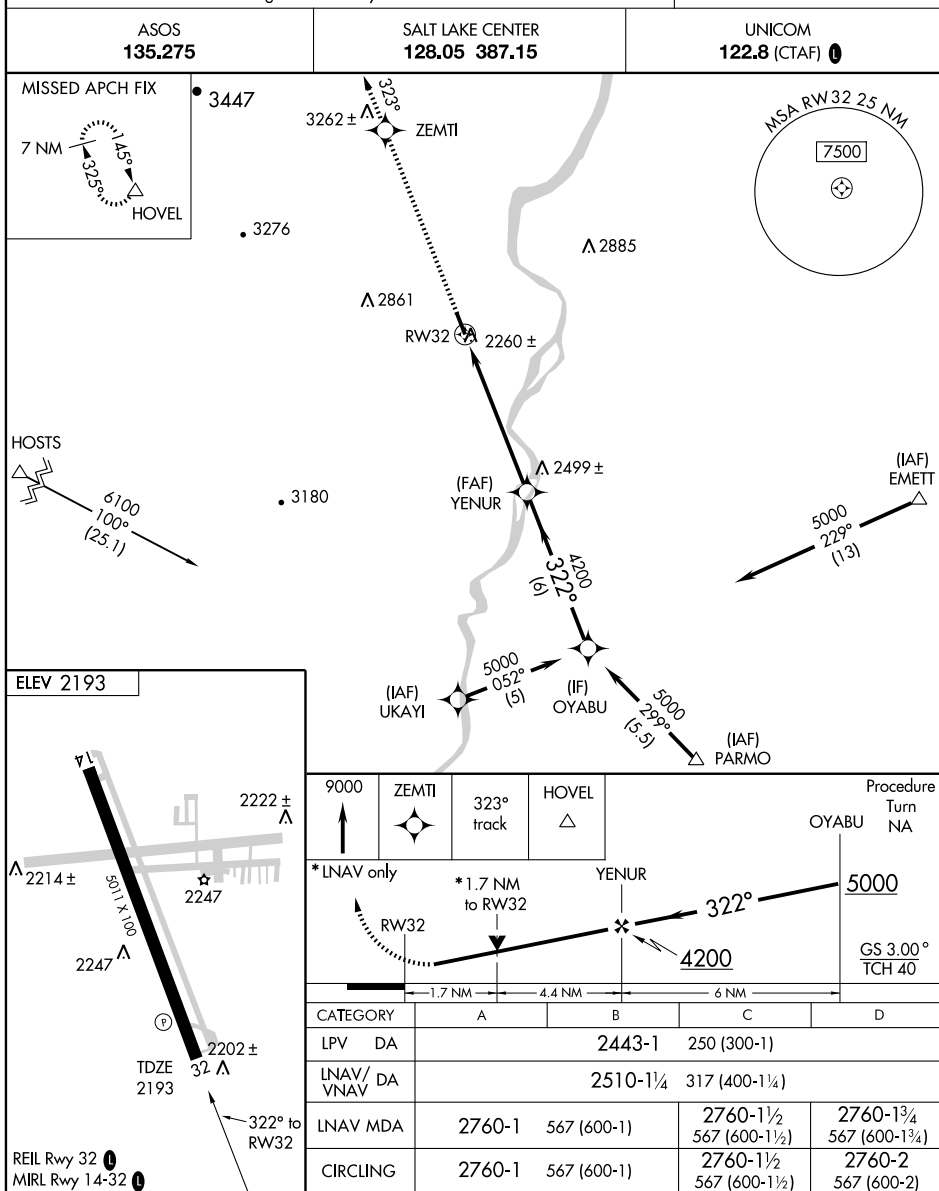
WAAS CH 87007 W32A	APP CRS 322°	Rwy Idg TDZE Apt Elev	5011 2193 2193
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RNAV (GPS) RWY 32

ONTARIO MUNI (ON0)

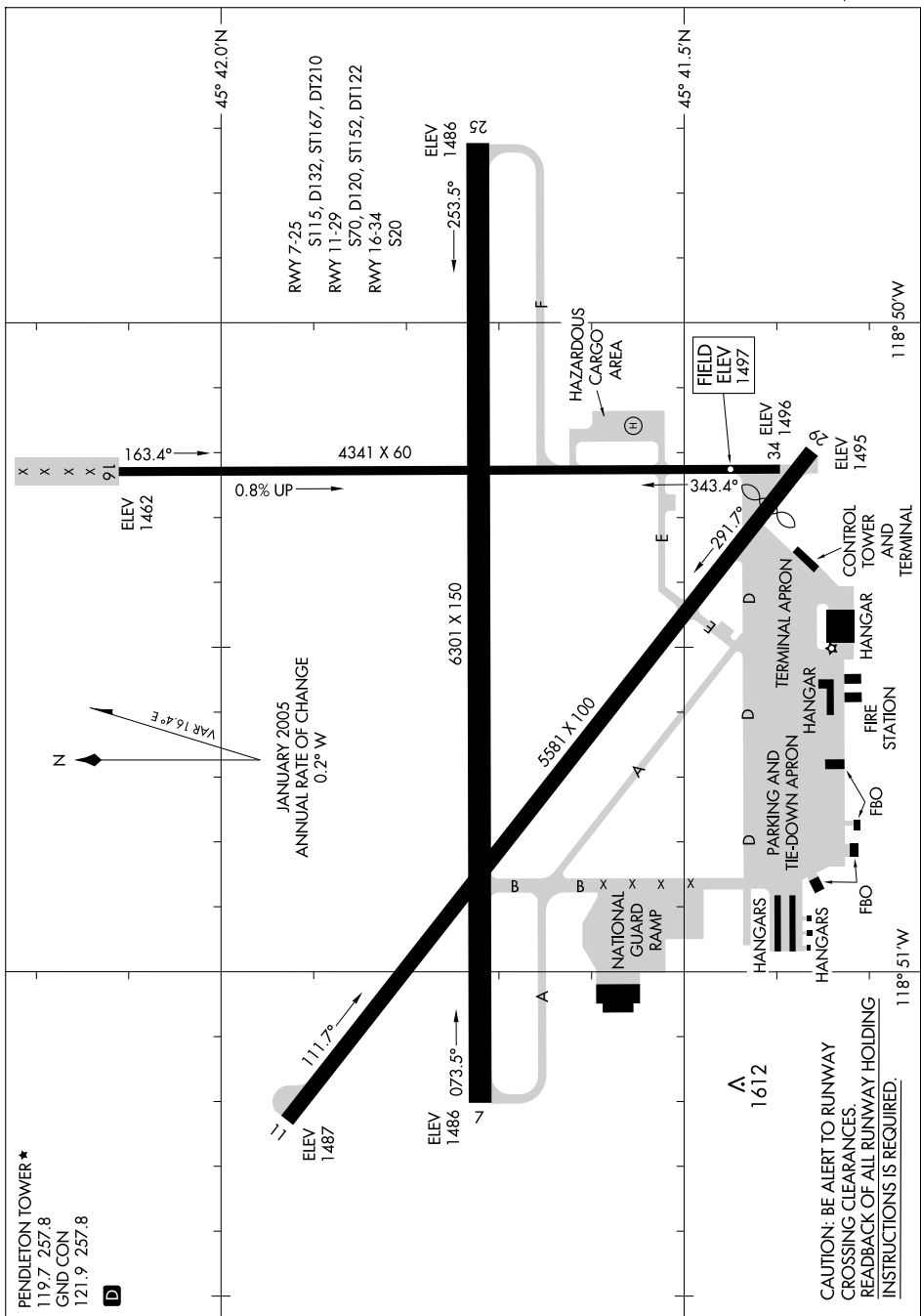
▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). Baro-VNAV and VDP NA when using Caldwell altimeter setting.
▲ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Caldwell altimeter setting and increase DA/MDA 100 feet, and increase LPV and LNAV/VNAV visibility ¼ mile all Cats, LNAV Cat C and D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 9000 direct ZEMTI and via 323° track to HOVEL and hold, continue climb-in-hold to 9000.



AIRPORT DIAGRAM

PENDLETON / EASTERN OREGON RGNL (PDT)
AL-316 (FAA)
PENDLETON, OREGON



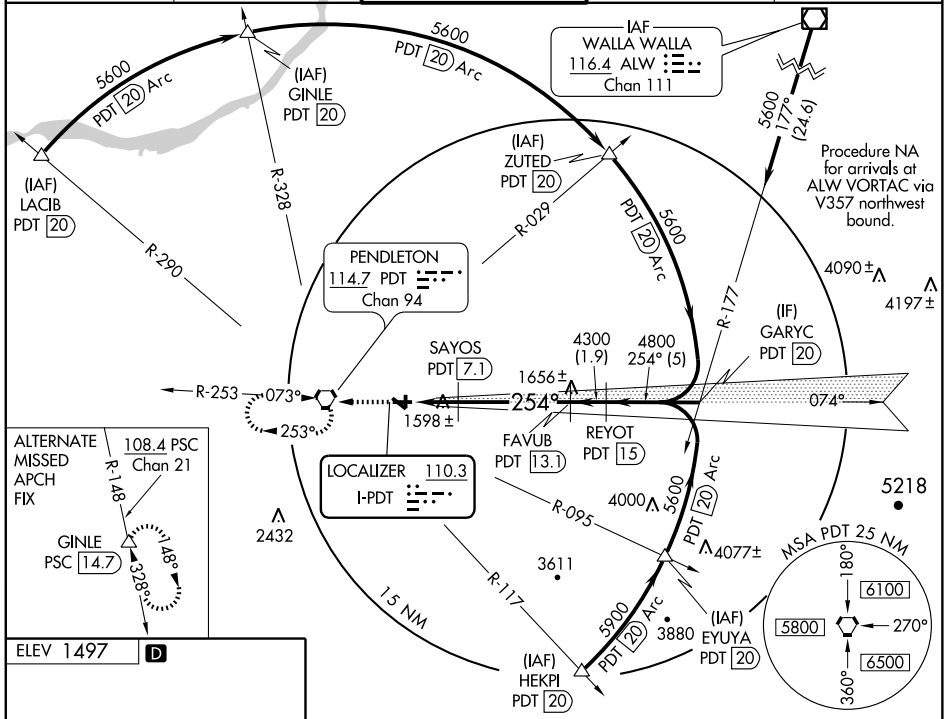
NW-1.03 JUN 2010 to 01 JUL 2010

ILS or LOC/DME RWY 25

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

LOC I-PDT 110.3	APP CRS 254°	Rwy Idg 6301 TDZE 1487 Apt Elev 1497	DME from PDT VORTAC. Simultaneous reception of I-PDT and PDT VORTAC DME required. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and S-LOC 25 Cat C/D visibility ¼ mile. For inoperative MALS when using Walla Walla altimeter setting increase S-ILS 25 visibility all Cats to 1 mile. ** RVR 1800 authorized with the use of FD or AP or HUD to DA, NA when using Walla Walla altimeter setting.	MALS 	MISSED APPROACH: Climb to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.
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ASOS 118.325	CHINOOK APP CON * 133.15 379.15	PENDLETON TOWER * 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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ELEV 1497 D	4000 PDT 114.7	VGSI and ILS glidepath not coincident.	FAVUB PDT 13.1	REYOT PDT 15	GARYC PDT 20
3001 X 150 4341 X 60 5581 X 100 6301 X 150 1612 1601 1559	254° 8.5 NM from FAF TDZE 1487	* LOC only 2320*	4300 4800	254° 4800	5600 Procedure Turn NA GS 3.00° TCH 55
REIL Rwy 11 and 29 MIRL Rwy 11-29 HIRL Rwy 7-25	9 0.85 DME 1612 1601 1559	2.5 6 NM 1.9 NM 5 NM	2.5 6 NM 1.9 NM 5 NM	2.5 6 NM 1.9 NM 5 NM	2.5 6 NM 1.9 NM 5 NM
CATEGORY S-ILS 25	A	B	C	D	D
S-LOC 25	1860/24	373 (400-½)	1860/40	373 (400-¾)	1860/40
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)	2060-2 563 (600-2)

WAAS CH 73012 W07A	APP CRS 074°	Rwy Idg TDZE Apt Elev	6301 1486 1497
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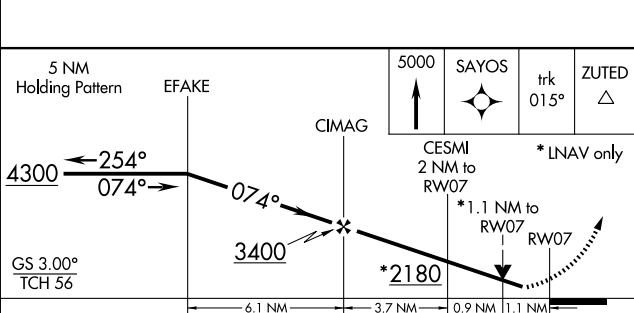
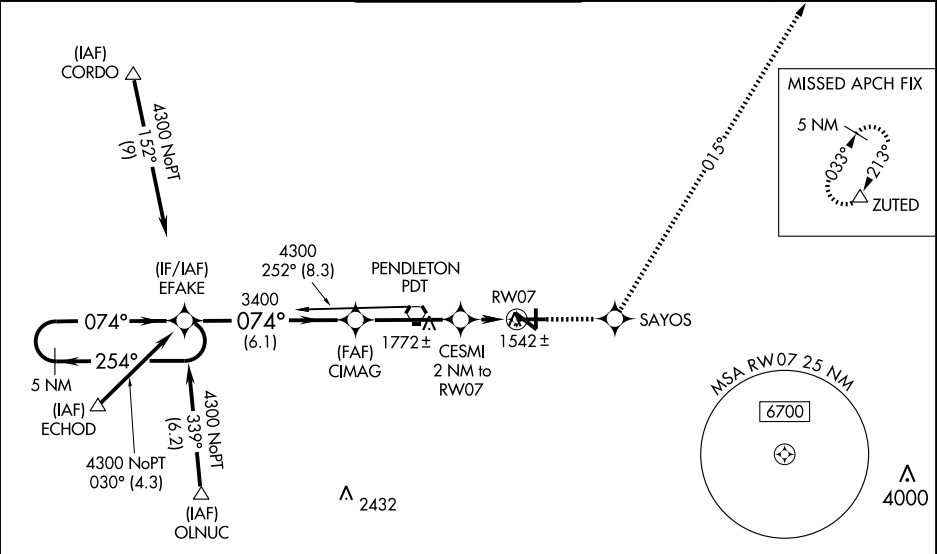
RNAV (GPS) RWY 7
PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

⚠ Inoperative table does not apply to LNAV/VNAV all Cats.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
VDP and Baro-VNAV NA when using Walla Walla altimeter setting. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities ¾ mile. Inoperative table does not apply.

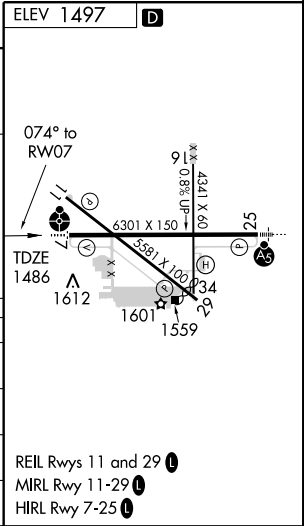
ODALS

MISSED APPROACH: Climb to 5000 direct SAYOS and via track 015° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	1736-¾ 250 (300-¾)			
LNAV/VNAV DA	1834-1¼ 348 (400-1¼)			
LNAV MDA	1880-¾ 394 (400-¾)			1880-1¼ 394 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)



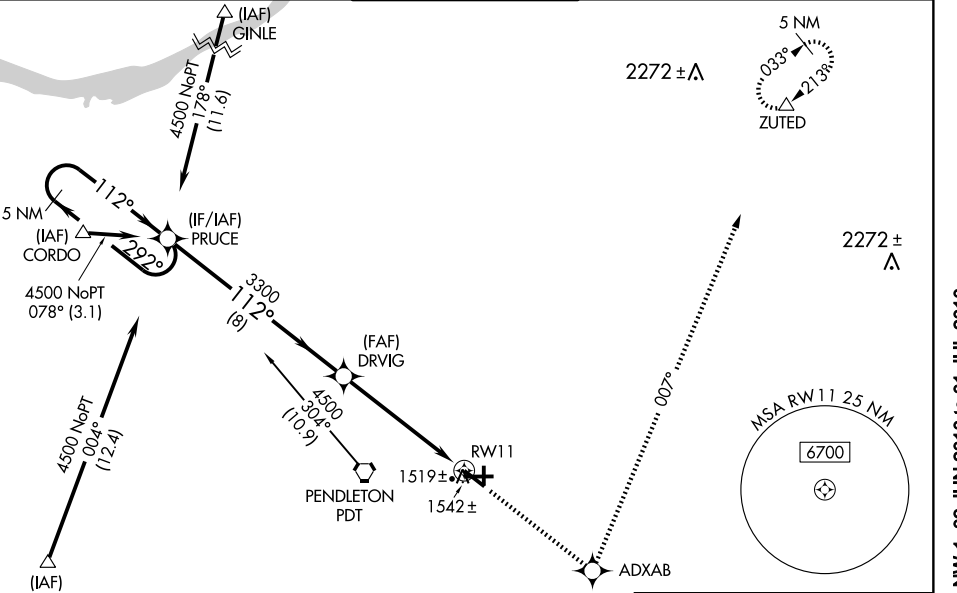
WAAS CH 82712 W11A	APP CRS 112°	Rwy Idg TDZE Apt Elev	5581 1487 1497
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⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

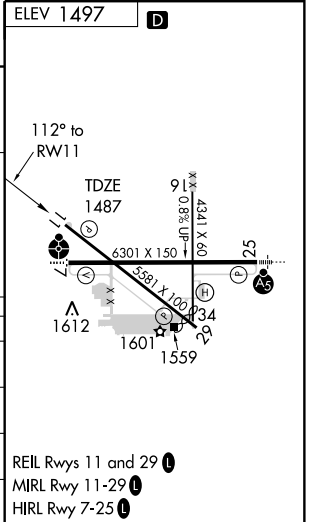
⚠ When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct ADXAB and left turn via track 007° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5 NM Holding Pattern				
PRUCE				
5000				
ADXAB				
ZUTED				
*1 NM to RWY 11				
*LNAV only				
RWY 11				
8 NM				
4.5 NM				
1 NM				
CATEGORY	A	B	C	D
LPV DA	1737-1 250 (300-1)			
LNAV/VNAV DA	1850-1¼ 363 (400-1¼)			
LNAV MDA	1860-1 373 (400-1)			1860-1¼ 373 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)



REIL Rwy 11 and 29
MIRL Rwy 11-29
HIRL Rwy 7-25

WAAS CH 78412 W25A	APP CRS 254°	Rwy Idg TDZE Apt Elev	6301 1487 1497
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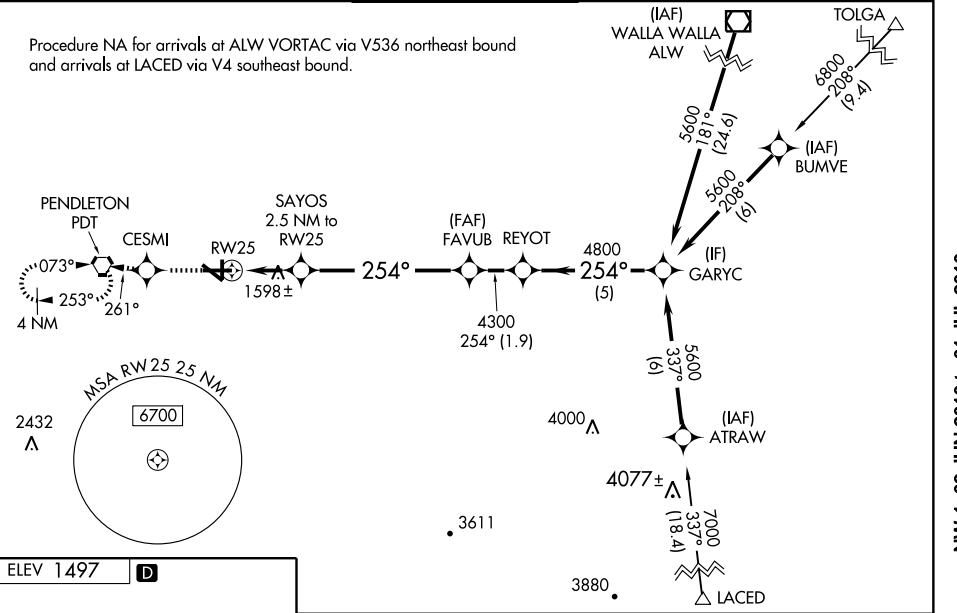
▼ For inoperative MALS, increase LNAV/VNAV Cat D visibility to RVR 5000, and LNAV Cat D to RVR 6000.

▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities 1 mile; inoperative table does not apply. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MALS

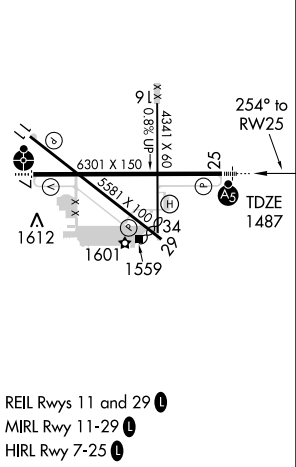
MISSED APPROACH: Climb to 4000 direct CESMI and via track 261° to PDT VORTAC and hold, continue climb-in-hold to 4000.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 257.8	GND CON 121.9 257.8	UNICOM 122.95
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ELEV 1497

D



4000	CESMI	trk 261°	PDT	VGSI and RNAV glidepath not coincident.
*LNAV only	SAYOS 2.5 NM to RW25	FAVUB	REYOT	GARYC
1.1 NM to RW25	2320	4300	5600	Procedure Turn NA
1.1 NM	1.4 NM	6 NM	1.9 NM	5 NM
CATEGORY	A	B	C	D
LPV DA	1687/24 200 (200-½)			
LNAV/VNAV DA	1800/24 313 (400-½)			1800/40 313 (400-¾)
LNAV MDA	1860/24 373 (400-½)			1860/50 373 (400-1)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)

REIL Rwy 11 and 29 **1**
MIRL Rwy 11-29 **1**
HIRL Rwy 7-25 **1**

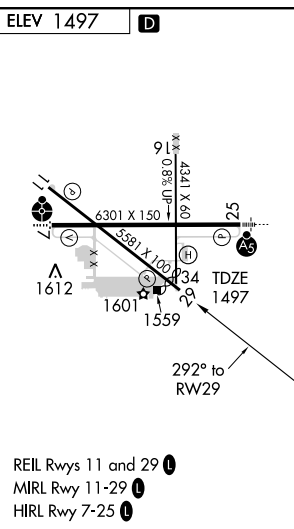
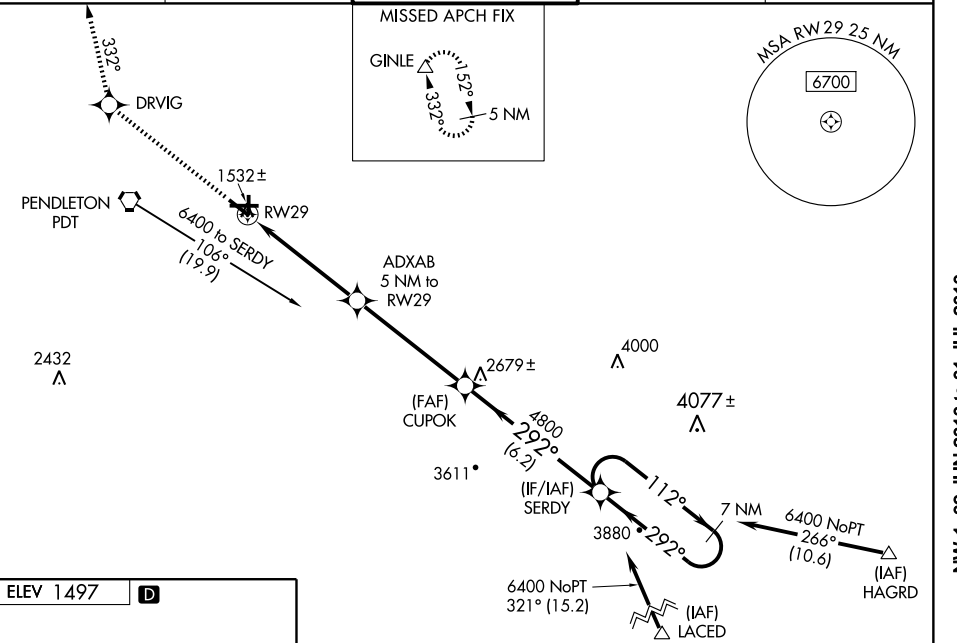
⚠ Inoperative table does not apply.

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct DRVIG and via track 332° to GINLE and hold.

ASOS 118.325	CHINOOK APP CON * 133.15 379.15	PENDLETON TOWER * 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5000	DRVIG	trk 332°	GINLE	VGSI and RNAV glidepath not coincident.			
				7 NM Holding Pattern			
*LNAV only		*0.9 NM to RWY 29		ADXAB 5 NM to RWY 29	CUPOK		
		RWY 29			SERDY		
		0.9		4.1 NM	4.9 NM	6.2 NM	
CATEGORY	A		B		C		D
LPV DA			1747-1		250 (300-1)		
LNAV/VNAV DA			1801-1		304 (400-1)		
LNAV MDA			1860-1		363 (400-1)		1860-1¼ 363 (400-1¼)
CIRCLING	1920-1		1960-1		1960-1½		2060-2
	423 (500-1)		463 (500-1)		463 (500-1½)		563 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC PDT 114.7 Chan 94	APP CRS 073°	Rwy Idg TDZE Apt Elev	6301 1486 1497
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VOR RWY 7

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

▼ Inoperative table does not apply to S-7 Cat C.
Visibility reduction by helicopters NA.

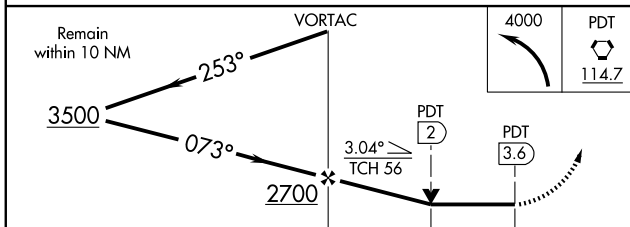
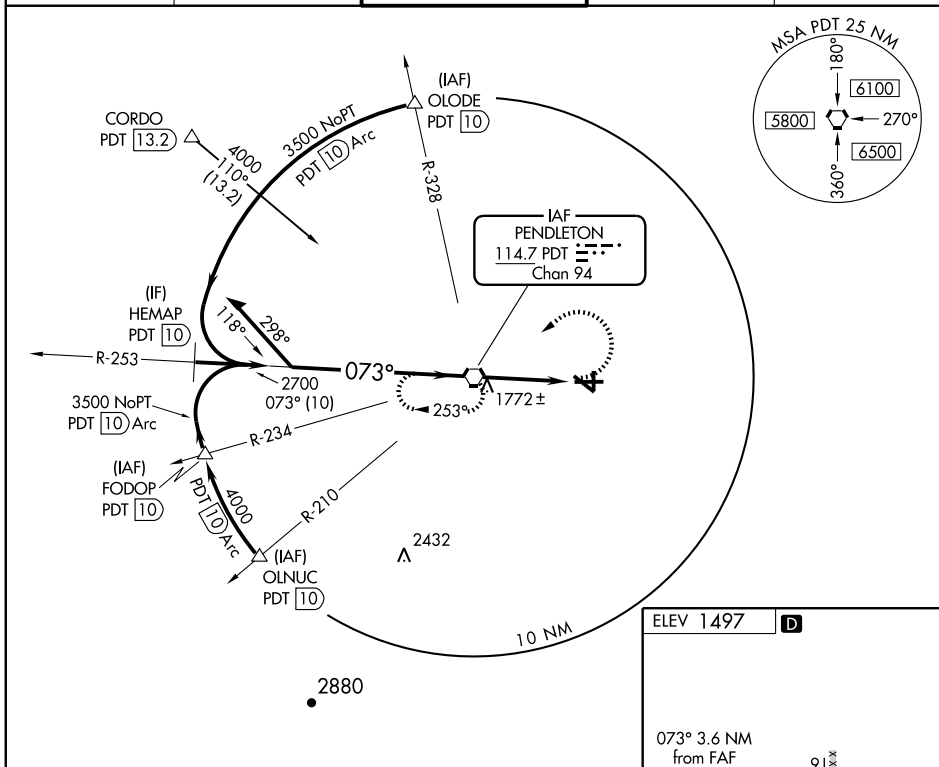
▲ When local altimeter setting not received, use Walla Walla altimeter setting and increase all MDA 120 feet, and all visibilities ½ mile.
Inoperative table does not apply when using Walla Walla altimeter setting.
VDP NA when using Walla Walla altimeter setting.

ODALS



MISSED APPROACH: Climbing left turn to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.

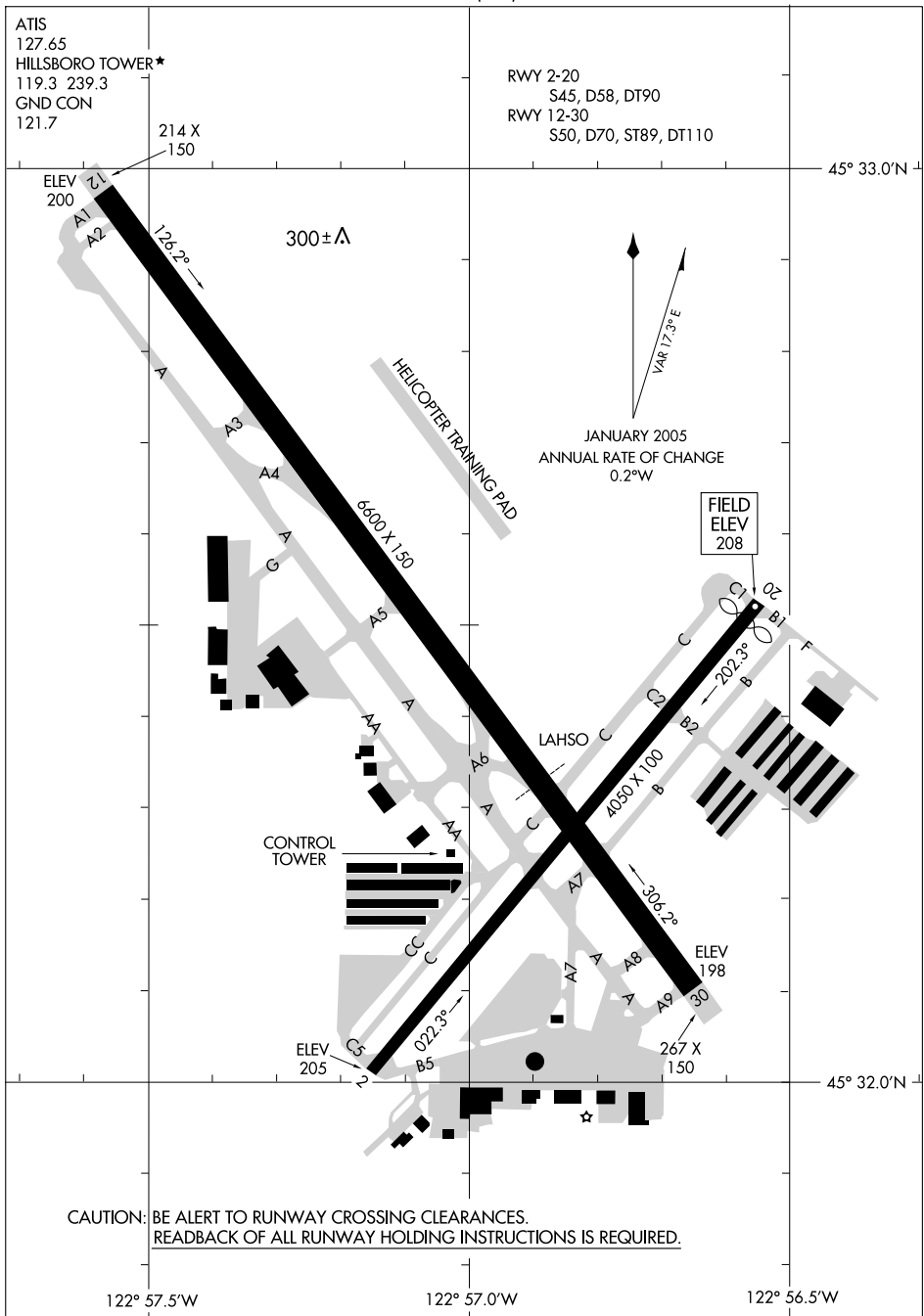
ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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					2 NM	1.6 NM		REIL Rws 11 and 29
CATEGORY	A	B	C	D				MIRL Rwy 11-29
S-7	2040-¾	554 (600-¾)	2040-1½	2040-1¾				HIRL Rwy 7-25
			554 (600-1½)	554 (600-1¾)				
								FAF to MAP 3.6 NM
CIRCLING	2040-1	543 (600-1)	2040-1½	2060-2	Knots	60	90	120
			543 (600-1½)	563 (600-2)	Min:Sec	3:36	2:24	1:48
							1:26	1:12

AIRPORT DIAGRAM

AL-5063 (FAA)

 PORTLAND-HILLSBORO (HIO)
 PORTLAND, OREGON


CANBY EIGHT DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)

PORTLAND, OREGON

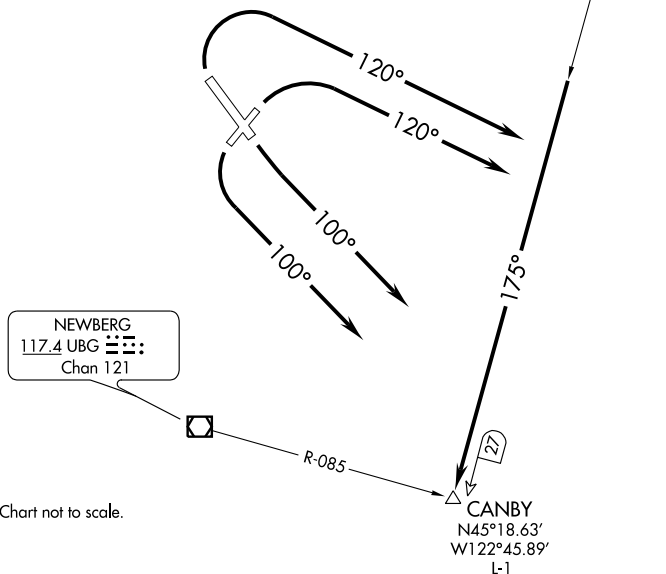
ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

TAKE-OFF MINIMUMS

Rwy 12, 20: Standard.

Rwy 2: Standard with minimum climb of 307' per NM to 2700.

Rwy 30: Standard with minimum climb of 280' per NM to 2700.



NOTE: Chart not to scale.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL.

Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12: Terrain left and right of centerline beginning at DER up to 296' MSL.

Trees 1836' from DER, 8' left centerline, up to 125' AGL/331' MSL.

Rwy 20: Terrain left and right of centerline beginning at DER up to 306' MSL.

Trees and hangars beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL.

Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL.

Rwy 30: Terrain left and right of centerline beginning at DER up to 292' MSL.

Trees beginning 1664' from DER, 626' right of centerline up to 194' AGL/363' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 30: Climbing right turn heading 120°, thenceTAKE-OFF RUNWAYS 12, 20: Climbing left turn heading 100°, thence

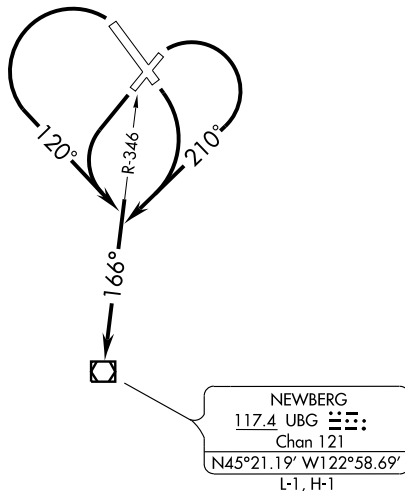
. . . . Intercept and proceed via BTG R-175 to CANBY INT. Thence via assigned route.

FARMINGTON FIVE DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

TAKE-OFF MINIMUMS

Rwy 12, 20: Standard.

Rwy 2: Standard with minimum climb of 307' per NM to 2700.

Rwy 30: Standard with minimum climb of 235' per NM to 2700.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL.

Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12: Terrain left and right of centerline beginning at DER up to 296' MSL.

Trees 1836' from DER, 8' left centerline, up to 125' AGL/331' MSL.

Rwy 20: Terrain left and right of centerline beginning at DER up to 306' MSL.

Trees and hangars beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL.

Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL.

Rwy 30: Terrain left and right of centerline beginning at DER up to 292' MSL.

Trees beginning 1664' from DER, 626' right of centerline up to 194' AGL/363' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 12: Turn right heading 210°, thence

TAKE-OFF RUNWAYS 20, 30: Turn left heading 120°, thence

. . . . Intercept and proceed via UBG R-346 to UBG VOR/DME. Thence via (assigned route).

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .
PROP/TURBOPROP: Cross at and maintain 10,000'.
TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

LOC I-HIO	APP CRS	Rwy Idg	6600
110.7	128°	TDZE	203
		Apt Elev	208

ILS or LOC RWY 12 PORTLAND-HILLSBORO (HIO)

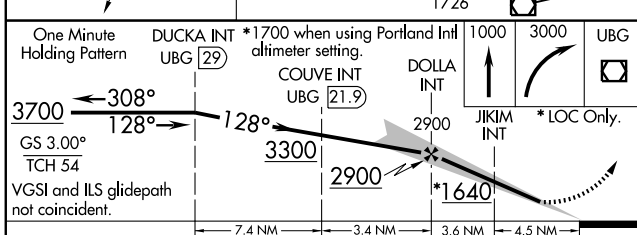
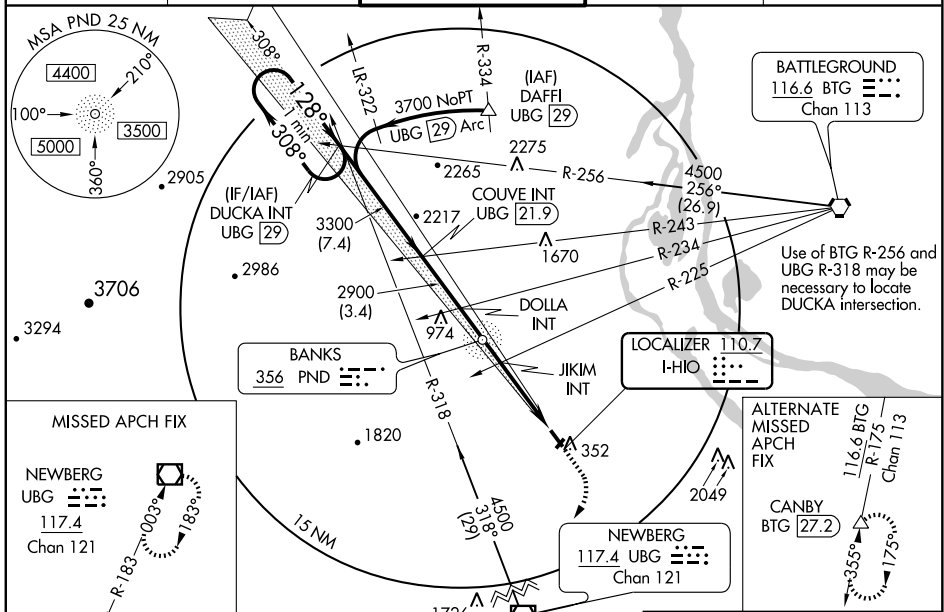
⚠ Inoperative table does not apply to S-LOC 12 Cats A and B. For inoperative MALSR when using Portland Intl altimeter setting, increase S-ILS 12 all Cats visibility to RVR 5000, inoperative table does not apply to S-LOC 12 Cats A and B. When local altimeter setting not received, use Portland Intl altimeter setting and increase all DA and MDA 60 feet, increase JIKIM fix minimums S-LOC 12 Cats C and D visibility ¼ mile.

MALSR

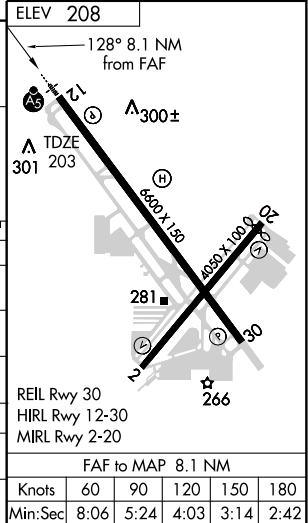


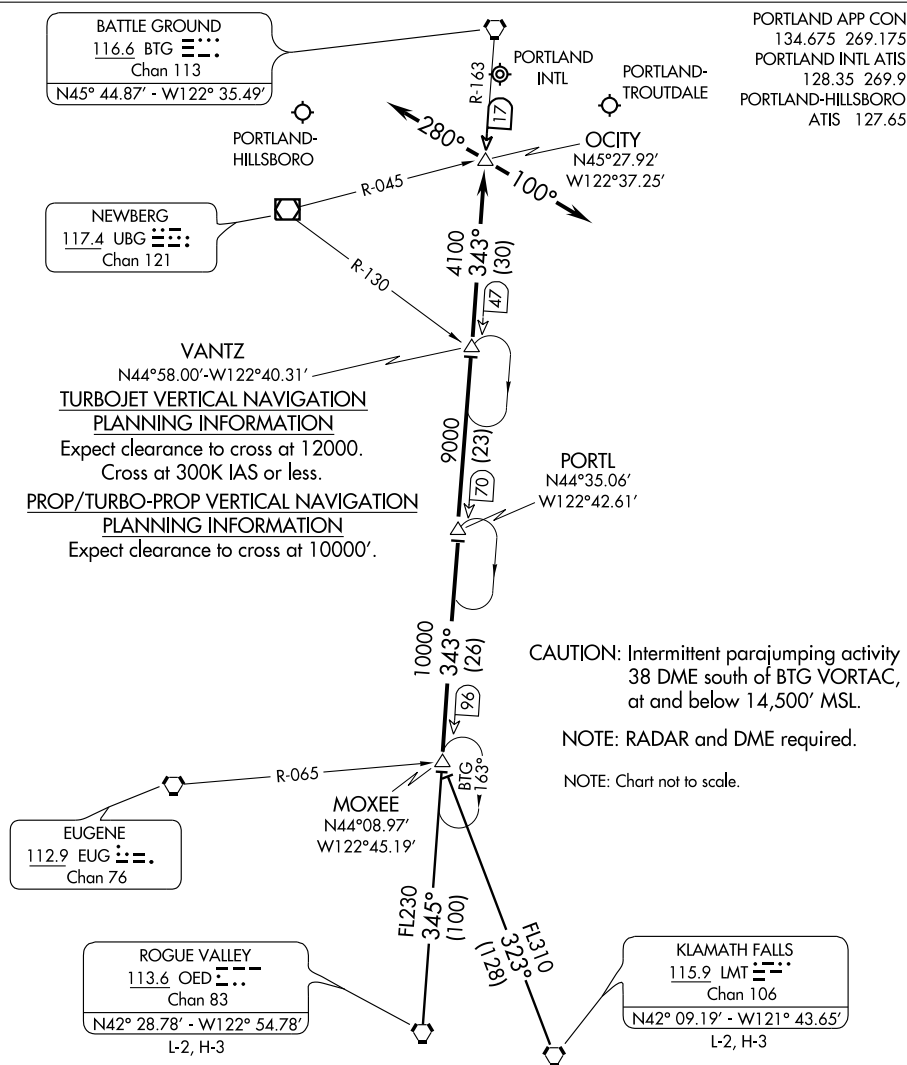
MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER* 119.3 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 12	403/24 200 (200-½)			
S-LOC 12	1640/60 1437 (1500-1¼)	1640-1½ 1437 (1500-1½)	1640-2½	1437 (1500-2½)
CIRCLING	1640-1¼ 1432 (1500-1¼)	1640-1½ 1432 (1500-1½)	1640-3	1432 (1500-3)
JIKIM FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-LOC 12	680/24 477 (500-½)	680/40 477 (500-¾)	680/50 477 (500-1)	
CIRCLING	680-1 472 (500-1)	680-1½ 472 (500-1½)	760-2 552 (600-2)	





KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence

. . . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

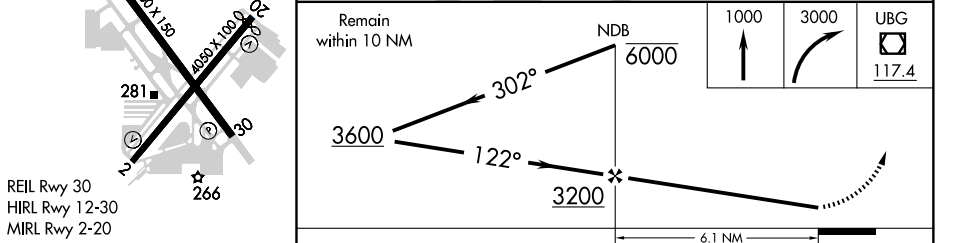
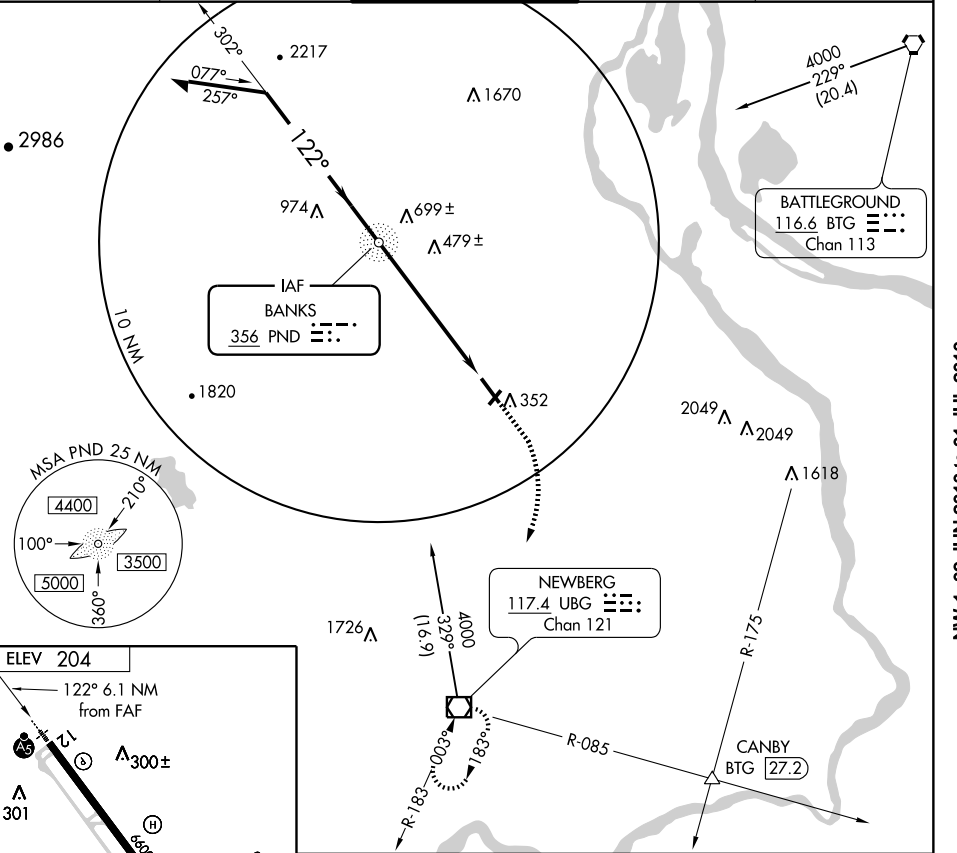
Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

▽

MISSED APPROACH: Climb to 1000, then climbing right turn to 3000 direct UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER ★ 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 69502 W12A	APP CRS 127°	Rwy Idg TDZE Apt Elev	6600 203 208
----------------------------------------	------------------------	-----------------------------	-----------------------------------------

RNAV (GPS) RWY 12

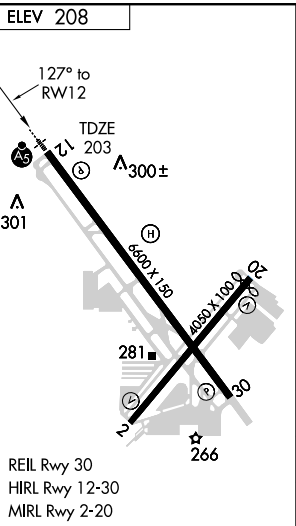
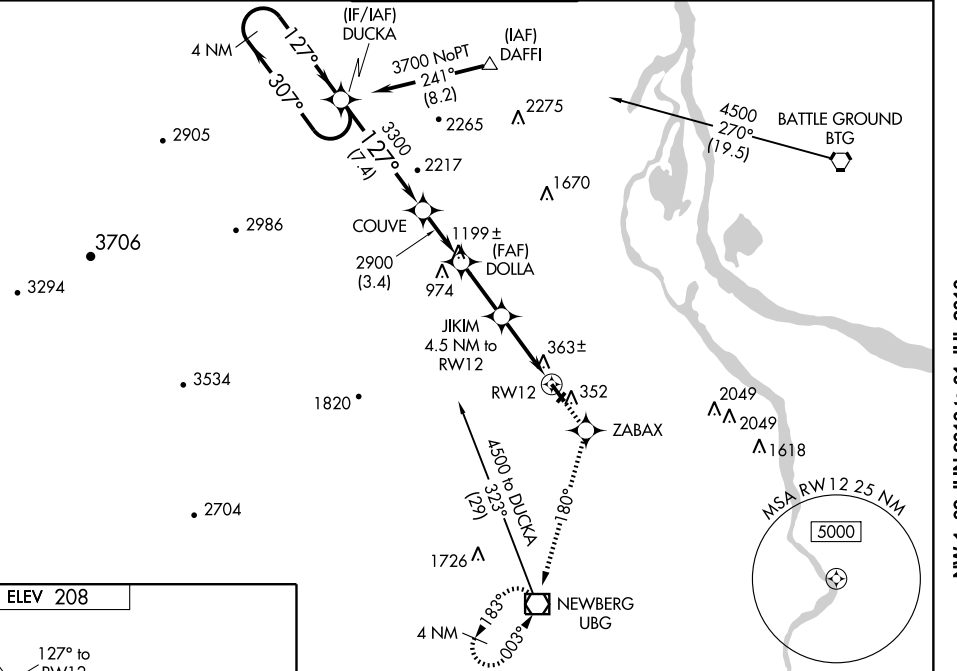
PORTLAND-HILLSBORO (HIO)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 49°C (120°F). DME/DME RNP 0.3 NA. When local altimeter setting not received, use Portland Intl altimeter setting and increase all DA and MDA 60 feet, increase LNAV/VNAV all Cats and LNAV Cat C and D visibility ¼ mile. For inoperative MALSR when using Portland Intl altimeter setting, increase LPV all Cats visibility to RVR 5000, LNAV/VNAV all Cats visibility and LNAV Cat D visibility to RVR 6000. VDP and Baro-VNAV NA when using Portland Intl altimeter setting.

MALSR

MISSED APPROACH: Climb to 3000 direct ZABAX and on track 180° to UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER* 119.3 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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VGSI and RNAV glidepath not coincident.				
4 NM Holding Pattern				
<div>3000</div> <div>ZABAX</div> <div>UBG</div>				
tr 180°				
*LNAV only				
*1.4 NM to RW12				
*1.4 NM to RW12				
*1.700				
7.4 NM 3.4 NM 3.6 NM 3.1 NM 1.4				
CATEGORY	A	B	C	D
LPV DA		403/24	200 (200-½)	
LNAV/VNAV DA		650/50	447 (500-1)	
LNAV MDA	680/24	477 (500-½)	680/40 477 (500-¾)	680/50 477 (500-1)
CIRCLING	680-1	472 (500-1)	680-1½ 472 (500-1½)	760-2 552 (600-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 69417 W30A	APP CRS 308°	Rwy Idg TDZE Apt Elev	6600 204 208
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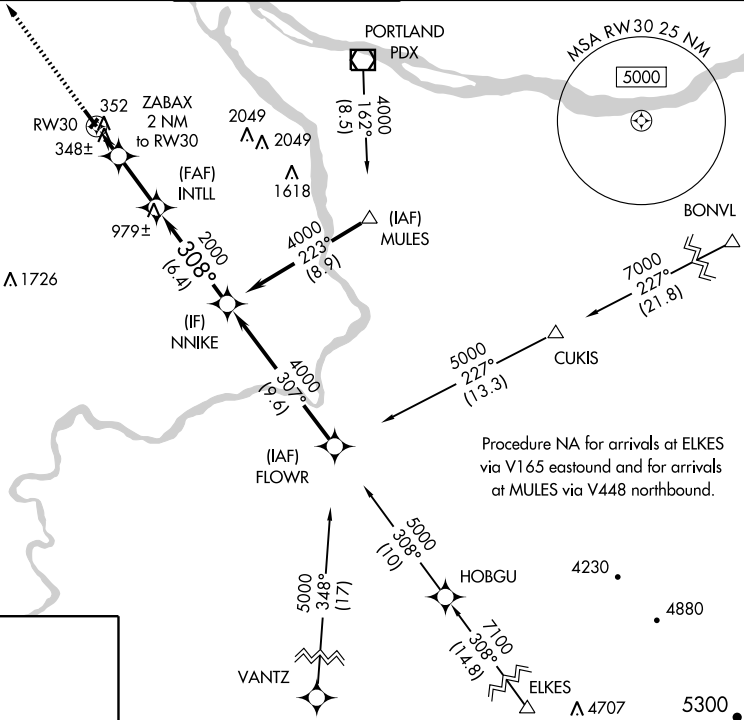
RNAV (GPS) RWY 30
PORTLAND-HILLSBORO (HIO)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP and Baro-VNAV NA when using Portland Intl altimeter setting. When local altimeter setting not received, use Portland Intl altimeter setting and increase all DA and MDA 60 feet, increase LPV all Cats, LNAV/VNAV all Cats, and LNAV Cats C and D visibility ½ mile.

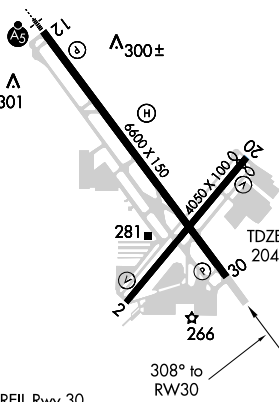
MISSED APPROACH: Climb to 3700 direct DUCKA and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER* 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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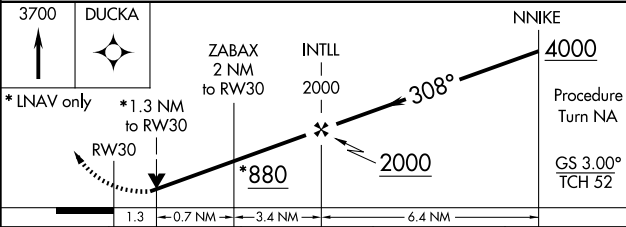
MISSED APCH FIX



ELEV 208



REIL Rwy 30
HIRL Rwy 12-30
MIRL Rwy 2-20



CATEGORY	A	B	C	D
LPV DA	589-1¼	385 (400-1¼)		
LNAV/VNAV DA	657-1½	453 (500-1½)		
LNAV MDA	660-1 456 (500-1)	660-1¼ 456 (500-1¼)	660-1½ 456 (500-1½)	
CIRCLING	680-1 472 (500-1)		760-2 472 (500-1½)	552 (600-2)

SCAPO FIVE DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

SCAPO
N45°45.12'
W123°01.68'
L-1

BATTLEGROUND
116.6 BTG
Chan 113

LOCALIZER
110.5
I-PDX
Chan 42

NEWBERG
117.4 UBG
Chan 121

TAKE-OFF MINIMUMS

- Rwy 20: Standard.
Rwy 2: Standard with minimum climb of 240' per NM to 1900.
Rwy 12: Standard with minimum climb of 308' per NM to 2700.
Rwy 30: Standard with minimum climb of 220' per NM to 2800.

TAKE-OFF OBSTACLE NOTES

- Rwy 2: Vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL.
Terrain left and right of centerline beginning at DER up to 302' MSL.
Rwy 12: Terrain left and right of centerline beginning at DER up to 296' MSL.
Trees 1836' from DER, 8' left centerline, up to 125' AGL/331' MSL.
Rwy 20: Terrain left and right of centerline beginning at DER up to 306' MSL.
Trees and hangars beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL.
Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL.
Rwy 30: Terrain left and right of centerline beginning at DER up to 292' MSL.
Trees beginning 1664' from DER, 626' right of centerline up to 194' AGL/363' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 12, 20: Climbing left turn heading 270°, thence . . .

TAKE-OFF RUNWAY 30: Climb heading 308°, thence . . .

. . . Intercept and proceed via UBG VOR/DME R-334 to SCAPO INT/UBG 24 DME, thence via (assigned route).

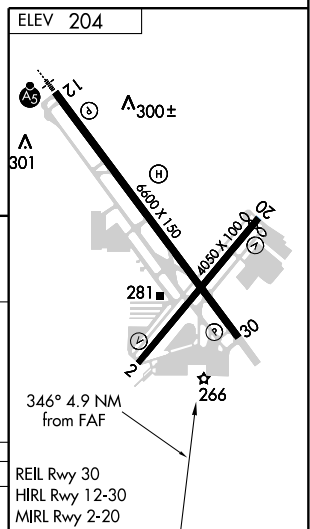
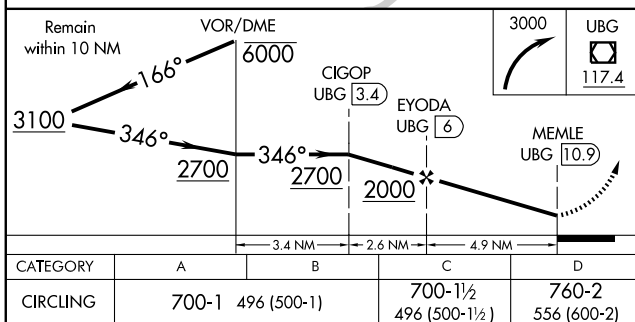
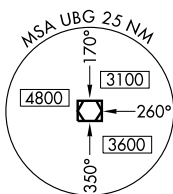
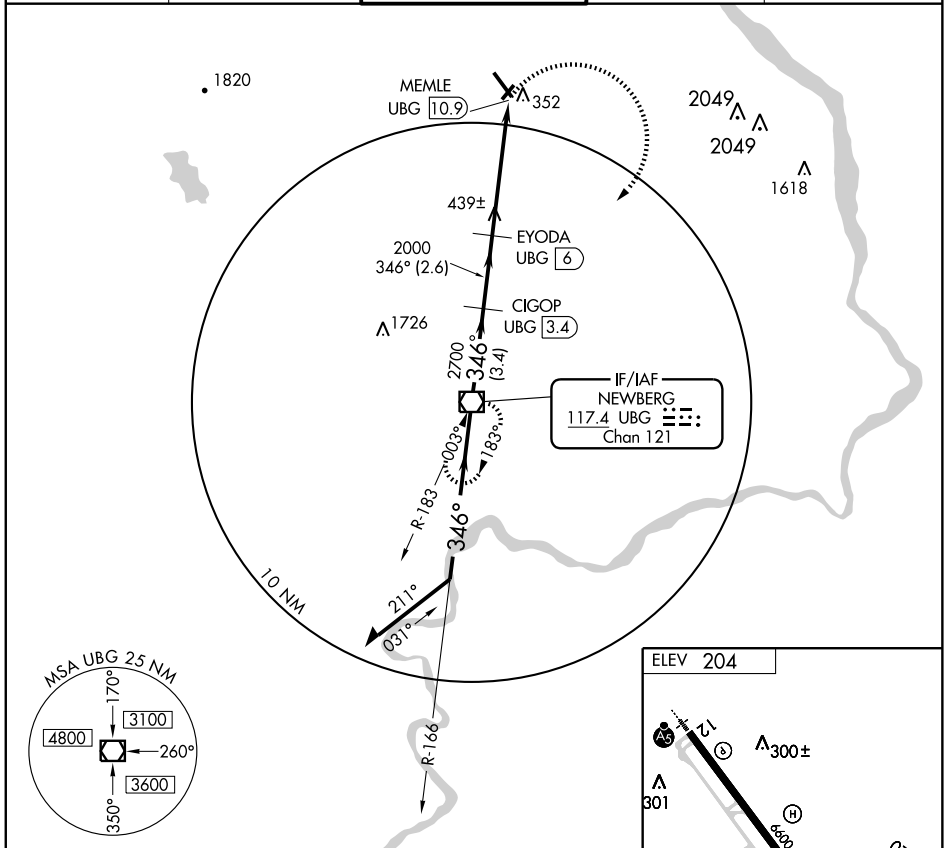
VOR/DME UBG 117.4 Chan 121	APP CRS 346°	Rwy Idg TDZE Apt Elev N/A N/A 204
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VOR/DME-C

PORTLAND-HILLSBORO (H10)

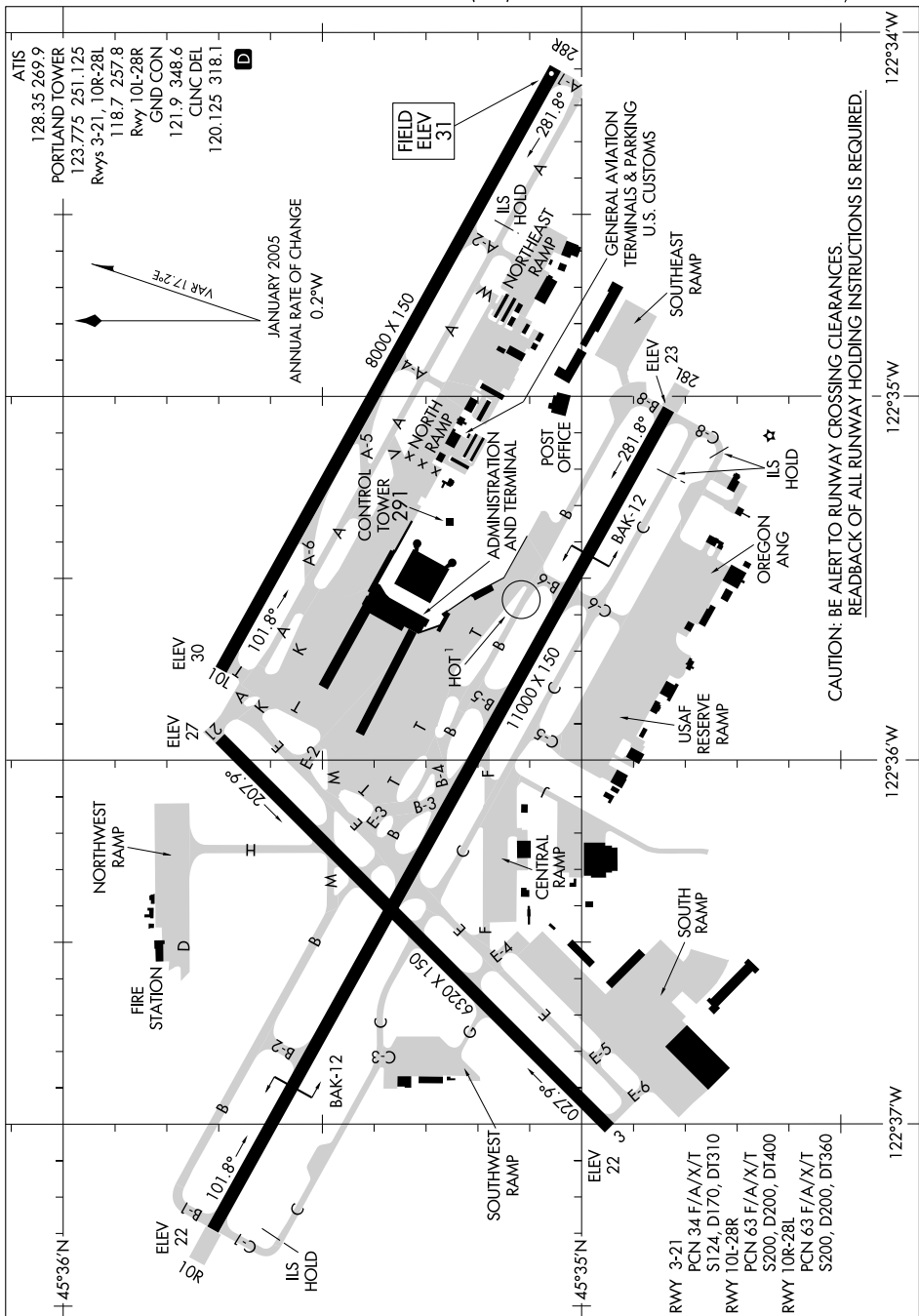
<p>ATIS 127.65</p>		<p>PORTLAND APP CON 126.0 284.6</p>	<p>HILLSBORO TOWER ★ 119.3 (CTAF) 0 239.3</p>	<p>GND CON 121.7</p>	<p>UNICOM 122.95</p>
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MISSED APPROACH: Climbing right turn to 3000 direct UBG VOR/DME and hold.



10070

PORTLAND INTEL (PD33)



KIMBERLY TRANSITION (IMB, BONVL6): From over IMB VORTAC via IMB R-287 to DUFUR, then via PDX R-079 to BONVL, Thence. . . .

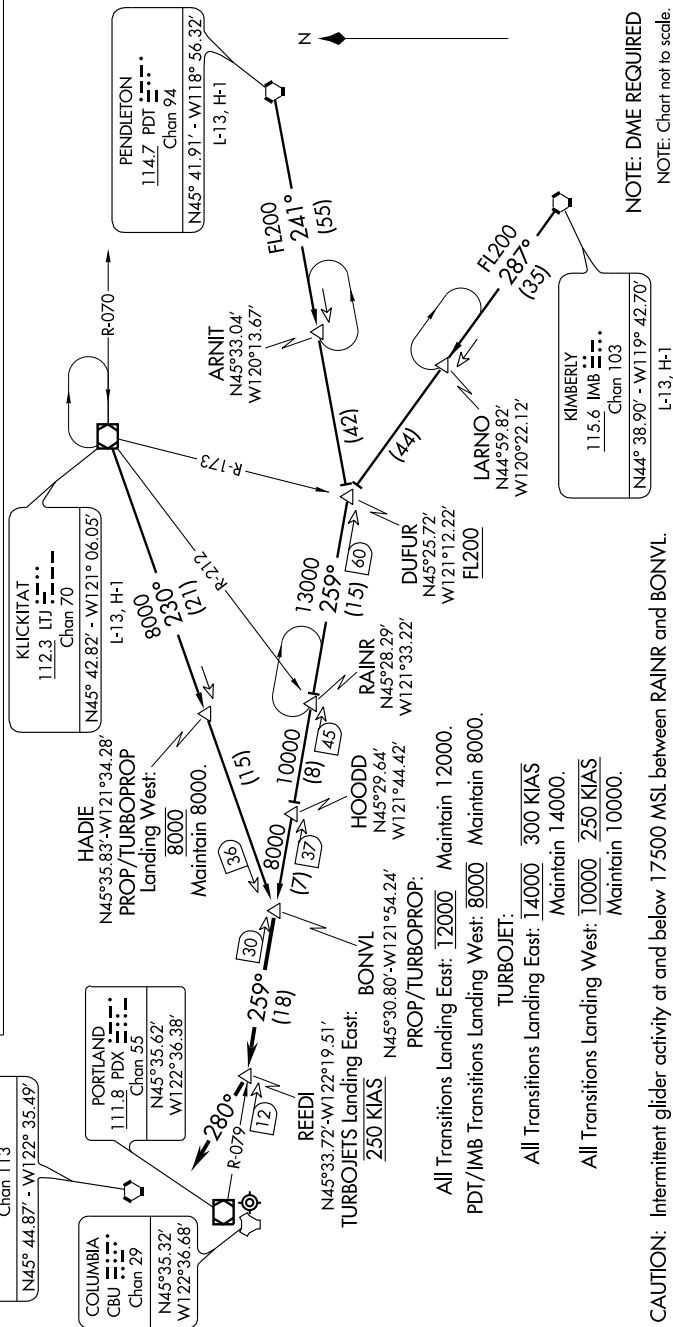
KLUICKITAT TRANSITION (LTJ, BONVL6): From over LTJ VOR/DME via LTJ R-230 to BONVL. Thence. . . .

PENDLETON TRANSITION (PDT, BONVL6): From over PDT VORTAC via PDT R-241 to DUFUR, then via PDX R-079 to BONVL. Thence. . . .

....From over BONVL:

Landing East - via PDX R-079 to REEDI DME fix. Depart REEDI DME fix heading 280° for radar vectors to final approach course.

Landing West - via PDX R-079 to REEDI DME fix, for radar vectors to final approach course.



CAUTION: Intermittent glider activity at and below 17500 MSL between RAINR and BONVL.

PORTLAND, OREGON

/

RWY 10L ONLY:
FRWY I-5 BRIDGE
PDX
3.2
1400
RECOMMENDED

X

Weather Minima: 3500 feet ceiling and
5 mile visibility

ANTENNA
FARM

$$\begin{array}{c} \Lambda \\ \Lambda \end{array} \Lambda \quad 2049$$

1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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PROCEDURE NOT AUTHORIZED AT NIGHT.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .
PROP/TURBOPROP: Cross at and maintain 10,000'.
TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

LOCALIZER I-PDX 110.5 Chan 42	APCH CRS 101°	Rwy Idg 11,000 TDZE 24 Arpt Elev 30
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JAL-330 [USAF]

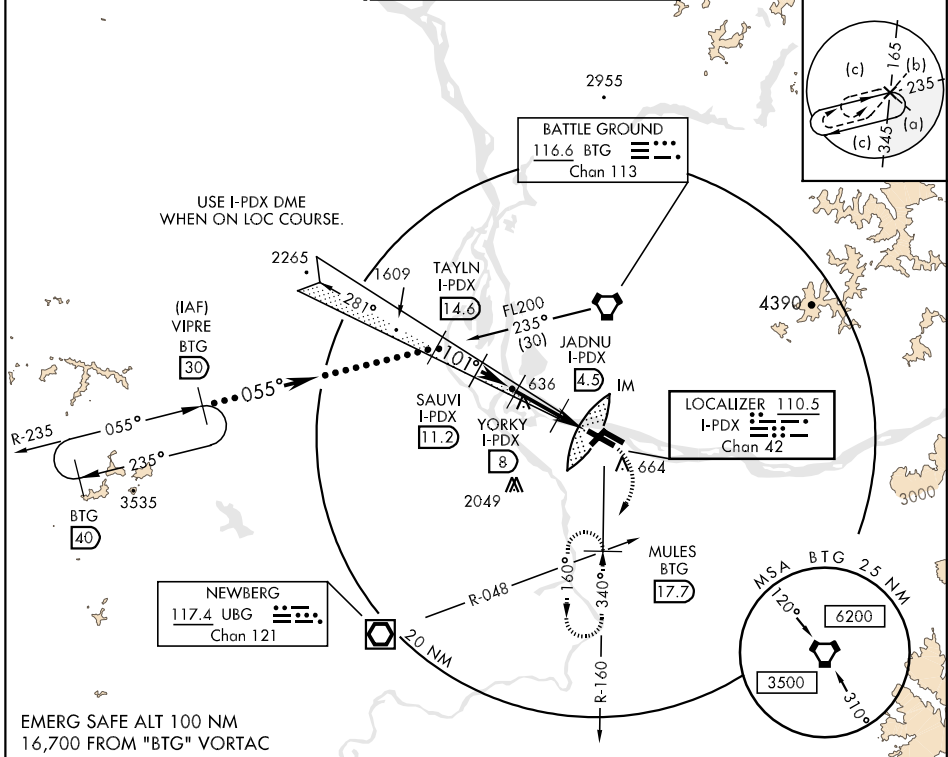
PORTLAND INTL (KPDJ)

* When ALS inop, increase RVR to 40 and vis to 3/4 mile.
 ** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1 1/4 miles.

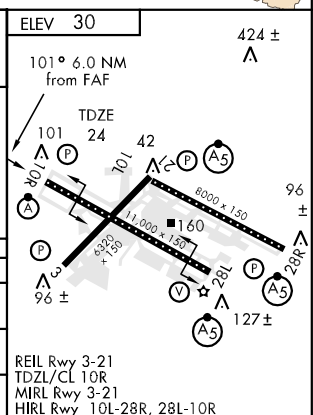
ALSF-2

MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG VORTAC R-160 to MULES and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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CATEGORY	C		D		E	
	224/18		200 (200-3/4)		224/24	
	380/24		380/40		356 (400-3/4)	
	740-2		1020-3		1060-3	
1710 (800-2)		990 (1000-3)		1030 (1100-3)		



LOCALIZER I-AP 111.3 Chan 50	APCH CRS 279°	Rwy Idg TDZE Arpt Elev 8000 30 30
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JAL-330 [USAF]

PORTLAND INTL (KPDJ)

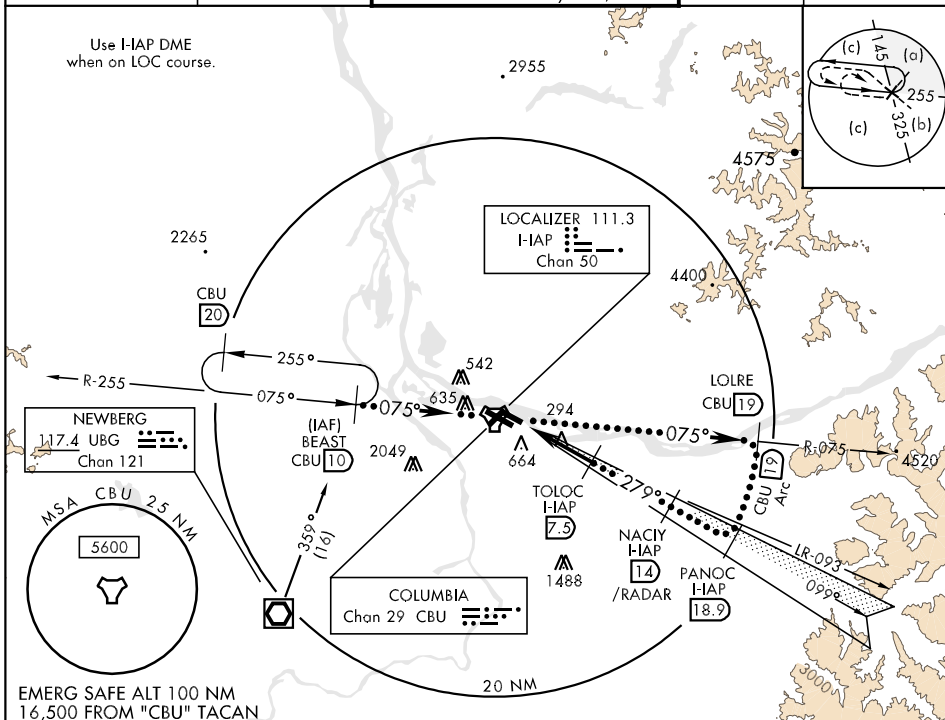
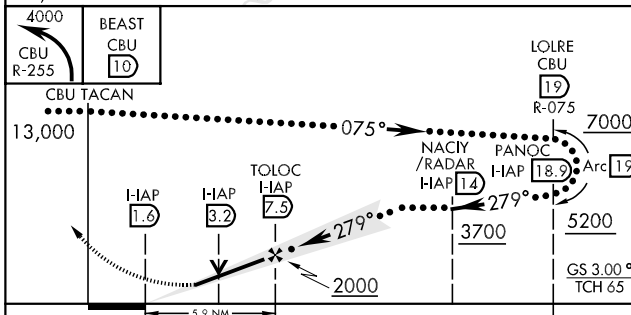


* When ALS inop, increase CAT E vis to 2 miles.

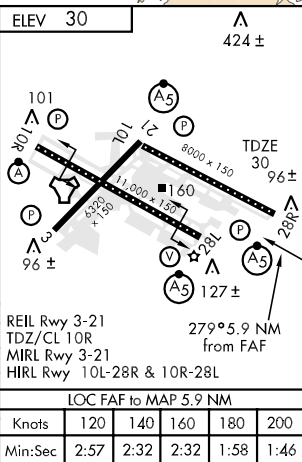
** Circling NA at night to Rwy 3.

MISSED APPROACH: Climbing left turn to 4000
via CBU TACAN R-255 to BEAST and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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Use I-AP DME
when on LOC course.EMERG SAFE ALT 100 NM
16,500 FROM "CBU" TACAN

CATEGORY	C	D	E
S-ILS 28R	280/40	250	(300-34)
S-LOC 28R*	600/50 570 (600-1)	600/60 570 (600-14)	600-11/2 570 (600-1/2)
CIRCLING**	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)



TACAN Chan 29	APCH CRS 106°	Rwy Idg 11,000 TDZE 24 Arpt Elev 30
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JAL-330 [USAF]

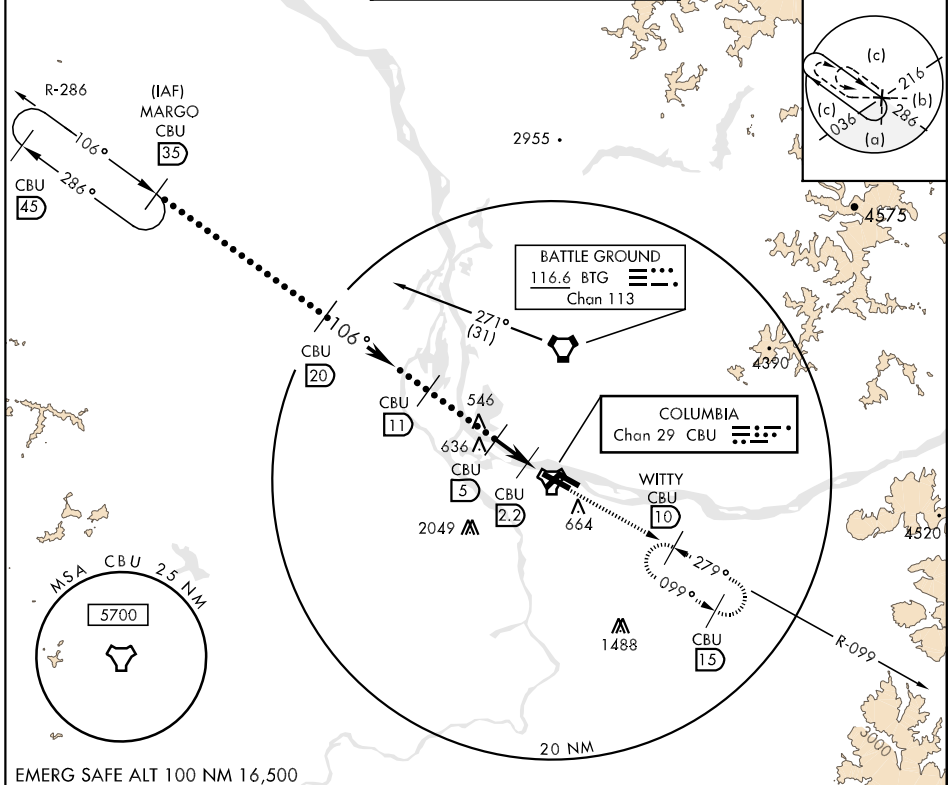
PORTLAND INTL (KPDJ)

V * When ALS inop, increase CAT C RVR to 50 and vis to 1 mile.

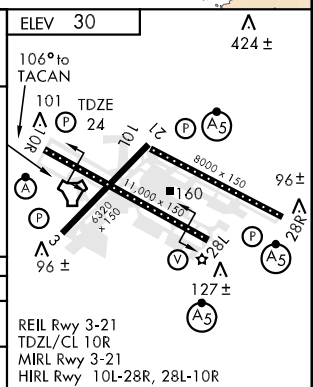
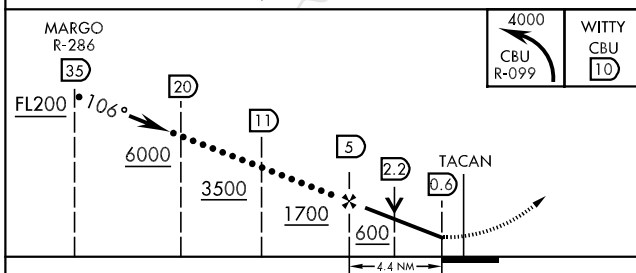


MISSED APPROACH: Climb to 4000 via CBU TACAN R-099 to WITTY/CBU 10 DME and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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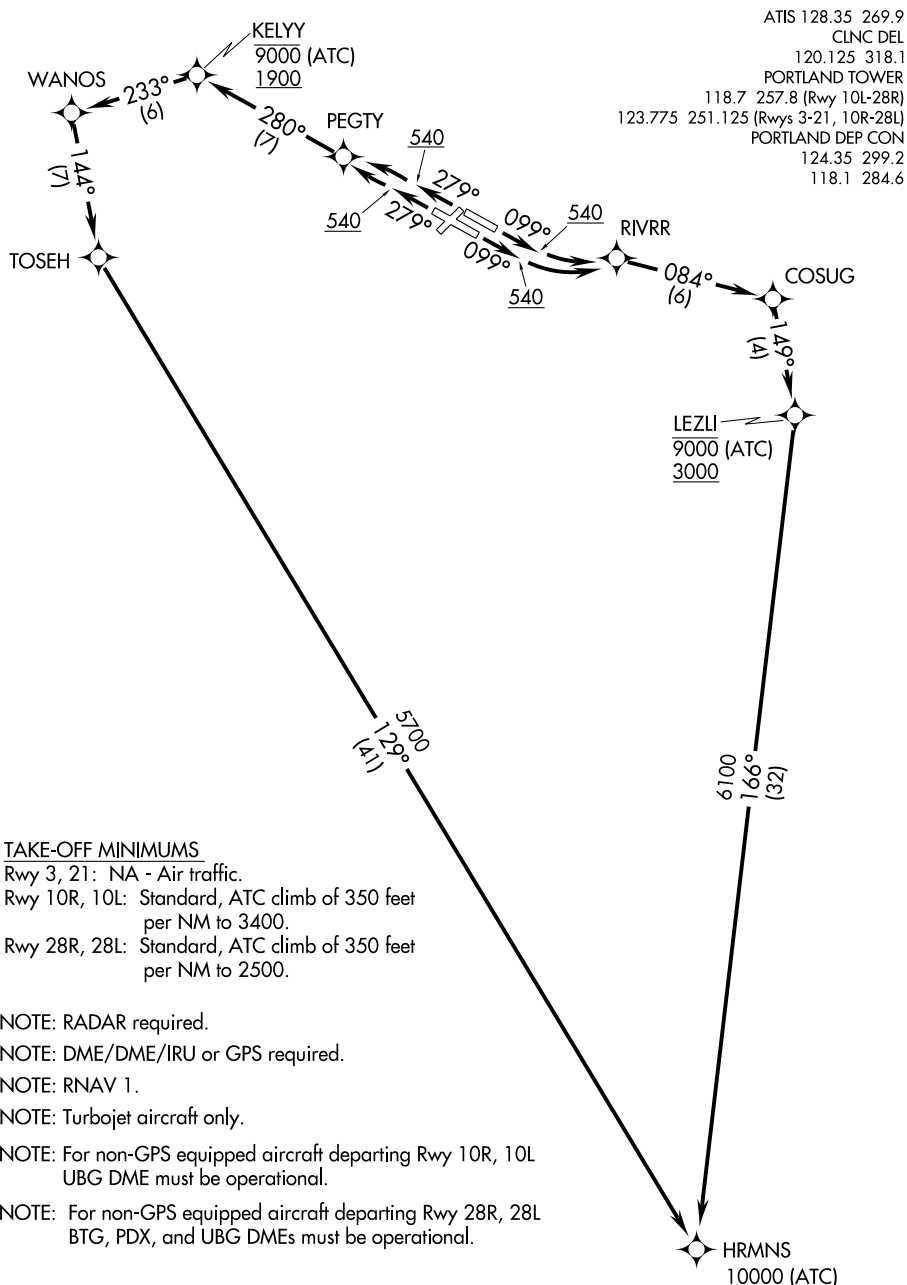


EMERG SAFE ALT 100 NM 16,500



CATEGORY	C	D	E
S-10R *	380/24 356 (400-1/2)	380/50	356 (400-1)
CIRCLING	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)

NW-1, 03 JUN 2010 to 01 JUL 2010

**TAKE-OFF MINIMUMS**

Rwy 3, 21: NA - Air traffic.

Rwy 10R, 10L: Standard, ATC climb of 350 feet per NM to 3400.

Rwy 28R, 28L: Standard, ATC climb of 350 feet per NM to 2500.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: Turbojet aircraft only.

NOTE: For non-GPS equipped aircraft departing Rwy 10R, 10L
UBG DME must be operational.NOTE: For non-GPS equipped aircraft departing Rwy 28R, 28L
BTG, PDX, and UBG DMEs must be operational.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

....maintain assigned altitude, expect filed altitude 10 minutes after departure.

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

▽

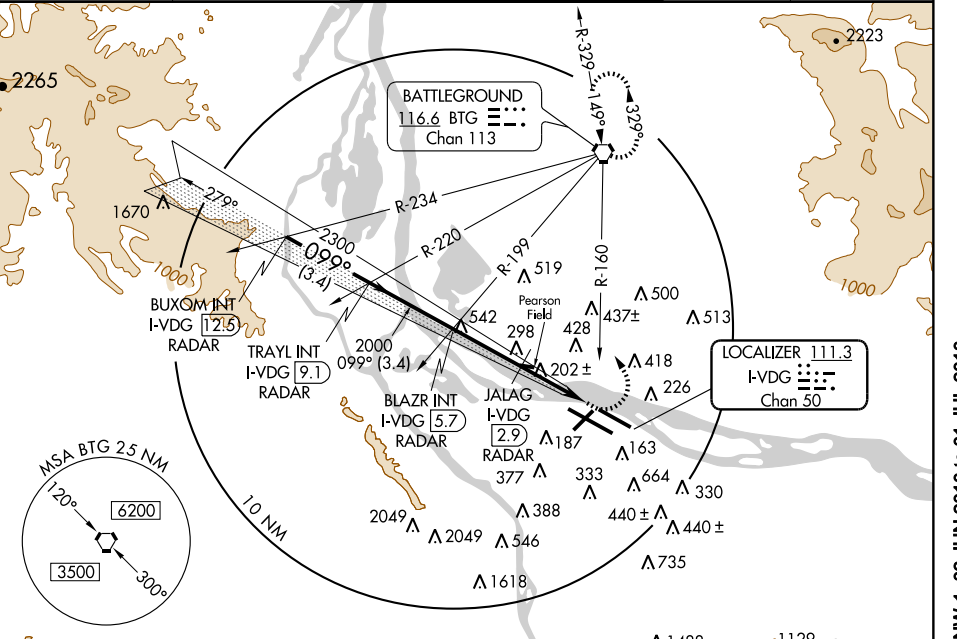
▲

MALS R

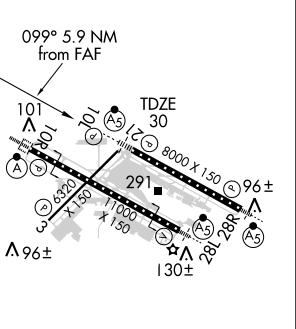
MISSED APPROACH:

Climb to 700, then climbing left turn to 4000 via BTG R-160 to BTG VORTAC and hold.

ATIS	PORTLAND APP CON	PORTLAND TOWER	GND CON	CLNC DEL
128.35 269.9	124.35 299.2	Rwy 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251.125	121.9 348.6
				120.125 318.1



ELEV 30	D
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REIL Rwy 3 and 21					
TDZ/CL Rwy 10R					
MIRL Rwy 3-21					
HIRL Rwy 10L-28R and 10R-28L					
FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

RADAR or DME REQUIRED

BUXOM INT I-VDG 12.5 RADAR	TRAYL INT I-VDG 9.1 RADAR	BLAZR INT I-VDG 5.7 RADAR	JALAG I-VDG 2.9 RADAR	I-VDG 1.3	I-VDG 0.2
3000 Procedure Turn NA	2300	2000	1100	1100	1100
GS 3.00° TCH 50	VGSI and ILS glidepath not coincident.	*LOC only			
3.4 NM	3.4 NM	2.8 NM	1.6	1.1	0.5
CATEGORY	A	B	C	D	
S-ILS 10L	293/24	263 (300-½)			
S-LOC 10L	480/24 450 (500-½)	480/50 450 (500-1)	480/60 450 (500-1½)		
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	

LOC/DME I-PDX	APP CRS	Rwy Idg	11000
110.5	101°	TDZE	24
Chan 42		Apt Elev	30

ILS or LOC RWY 10R

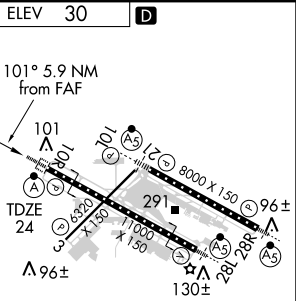
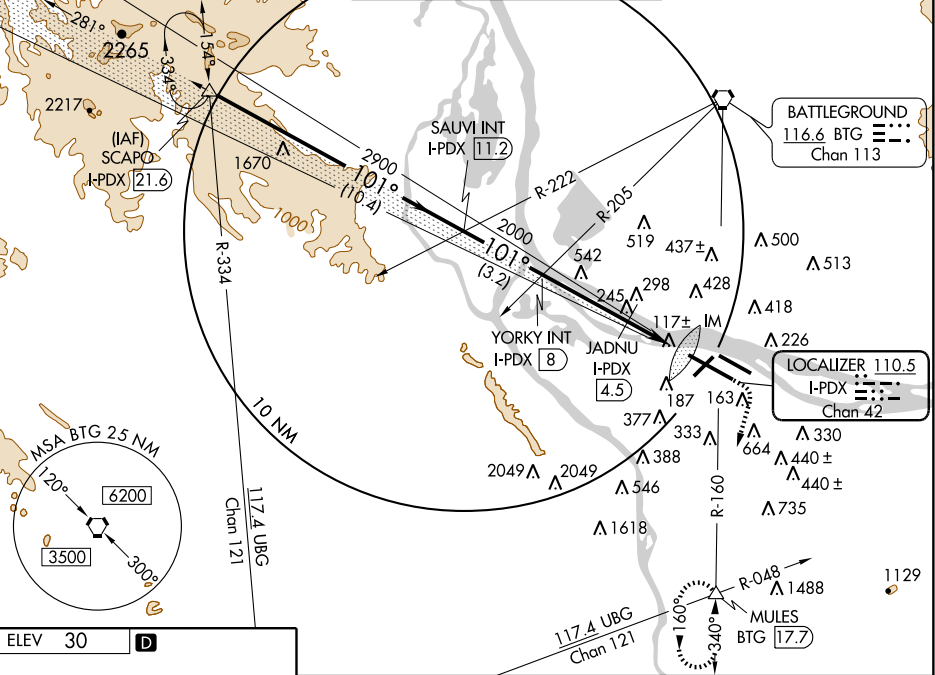
PORTLAND INTL (PDX)

For inoperative ALSF-2 increase S-ILS Cat E visibility to RVR 4000.
For inoperative ALSF-2 increase S-LOC Cat E visibility to 3 miles.
For inoperative ALSF-2 increase DME minimums S-LOC 10R Cat E visibility to RVR 6000.

ALSF-2

MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES INT/BTG VORTAC 17.7 DME and hold.

ATIS	PORTLAND APP CON*	PORTLAND TOWER	GND CON	CLNC DEL
128.35 269.9	124.35 299.2	Rwys 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251.125	121.9 348.6
				120.125 318.1



REIL Rwys 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwys 10L-28R and 10R-28L

FAF to MAP 5.9 NM	Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58	

SCAPO INT I-PDX 21.6	SAUVI INT I-PDX 11.2	YORKY INT I-PDX 8	JADNU I-PDX 4.5	900	4000	MULES
Procedure Turn NA	101°	2900	2000	I-PDX 2.9	BTG R-160	*LOC only
VGSI and ILS glidepath not coincident.	2000	*860	IM	GS 3.00°	TCH 53	
	10.4 NM	3.2	3.4 NM	1.6	0.8	0.1
CATEGORY	A	B	C	D	E	
S-ILS 10R	224/18 200 (200-½)					224/24 200 (200-½)
S-LOC 10R	860/24 836 (900-½)	860/40 836 (900-¾)	860-2 836 (900-2)	860-2¼ 836 (900-2¼)	860-2½ 836 (900-2½)	
CIRCLING	860-1 830 (900-1)	860-1¼ 830 (900-1¼)	860-2½ 830 (900-2½)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)	
DME MINIMUMS						
S-LOC 10R	380/24 356 (400-½)			380/40 356 (400-¾)		
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)	

NW-1. 03 JUN 2010 to 01 JUL 2010

ILS or LOC RWY 28L PORTLAND INTL (PDX)

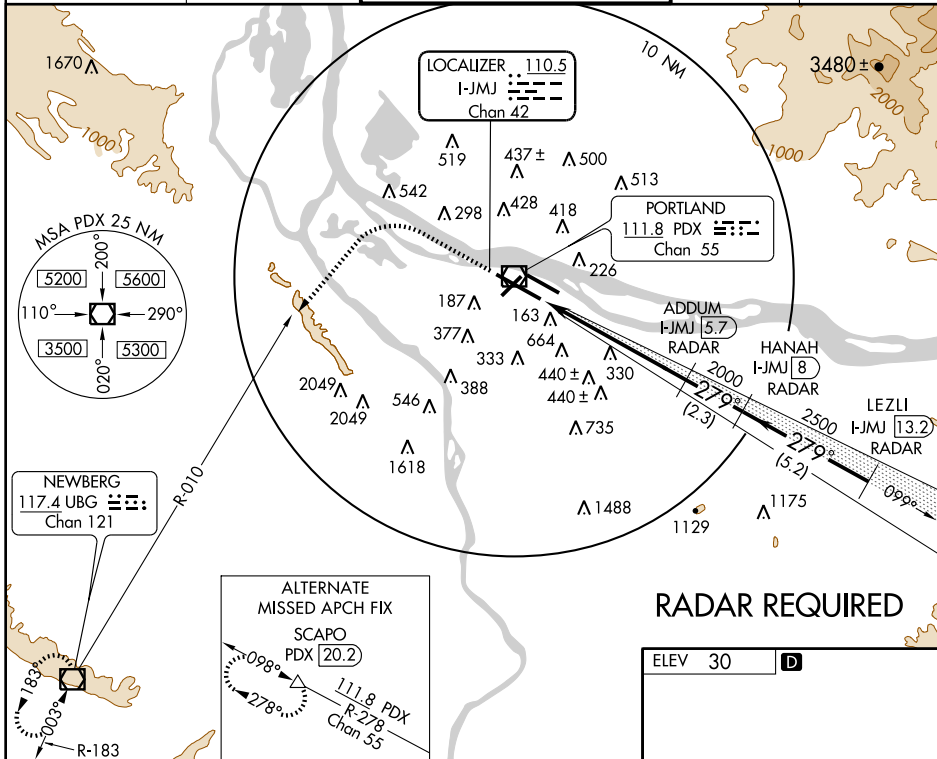
LOC/DME I-JMJ 110.5 Chan 42	APP CRS 279°	Rwy Idg 11000 TDZE 23 Apt Elev 30
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⚠ RADAR or DME required. For inoperative MALSR, increase S-ILS visibility to RVR 5000 all Cats and S-LOC Cat E visibility to 2 miles. Autopilot coupled approach NA below 580.



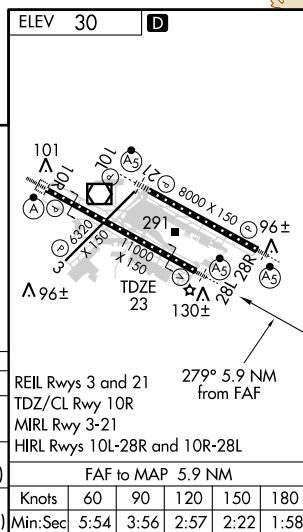
MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 via UBG R-010 to UBG VOR/DME and hold.

ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251,125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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RADAR REQUIRED

CATEGORY	ELEV 30 D																												
	1700	4000	UBG R-010 117.4	UBG 117.4																									
VGSI and ILS glidepath not coincident.																													
<table border="1"> <thead> <tr> <th></th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th></tr> </thead> <tbody> <tr> <td>S-ILS-28L</td><td colspan="5">306/24 283 (300-1/2)</td></tr> <tr> <td>S-LOC-28L</td><td>620/24</td><td>597 (600-1/2)</td><td>620/50 597 (600-1)</td><td>620/60 597 (600-1 1/4)</td><td>620-1 1/2 597 (600-1 1/2)</td></tr> <tr> <td>CIRCLING</td><td>720-1 690 (700-1)</td><td>740-1 710 (800-1)</td><td>740-2 710 (800-2)</td><td>1020-3 990 (1000-3)</td><td>1060-3 1030 (1100-3)</td></tr> </tbody> </table>							A	B	C	D	E	S-ILS-28L	306/24 283 (300-1/2)					S-LOC-28L	620/24	597 (600-1/2)	620/50 597 (600-1)	620/60 597 (600-1 1/4)	620-1 1/2 597 (600-1 1/2)	CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)
	A	B	C	D	E																								
S-ILS-28L	306/24 283 (300-1/2)																												
S-LOC-28L	620/24	597 (600-1/2)	620/50 597 (600-1)	620/60 597 (600-1 1/4)	620-1 1/2 597 (600-1 1/2)																								
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)																								



NW-1. 03 JUN 2010 to 01 JUL 2010

LOC/DME HAP

111.3

Chan 50

APP CRS

279°

Rwy Idg TDZE

8000 30

Apt Elev

30

MAJRS

MISSED APPROACH:

Climbing right turn to 4000 via BTG R-160 to BTG VORTAC and hold.

ATIS	PORTLAND APP CON	PORTLAND TOWER	GND CON	CLNC DEL
128.35 269.9	124.35 299.2	Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	121.9 348.6	120.125 318.1

ELEV 30

REIL Rwys 3 and 21

TDZ/CL Rwy 10R

MIRL Rwy 3-21

HIRL Rwys 10L-28R and 10R-28L

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

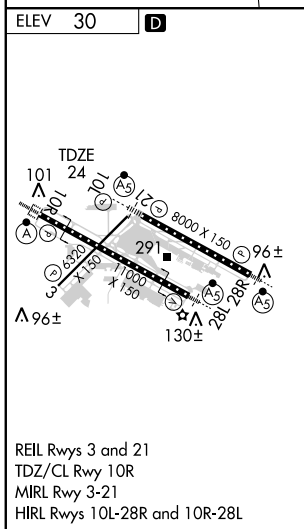
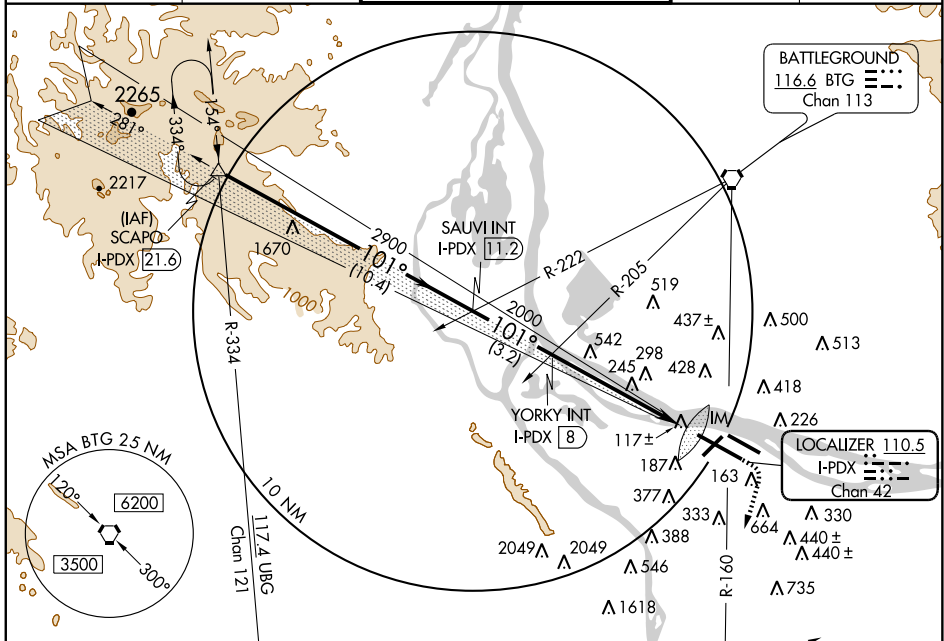
	BTG	TOLOC	NACY INT	
	116.6	I-HAP 7.5	I-HAP 14	
	BTG R-160	RADAR	RADAR	
	Use I-HAP DME when on the localizer course.			One Minute Holding Pattern
				099° → ← 279° 3800
				GS 3.00° TCH 65
CATEGORY	A	B	C	D
S-ILS 28R	280/40 250 (300-¾)			
S-LOC 28R	600/40	570 (600-¾)	600/50 570 (600-1)	600/60 570 (600-1½)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

NW-1. 03 JUN 2010 to 01 JUL 2010

LOC/DME I-PDX 110.5 Chan 42	APP CRS 101°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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ILS RWY 10R (CAT II) PORTLAND INTL (PDX)

<div><div><div></div><div></div></div></div>		ALSF-2 <div><div></div><div></div></div>	MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES Int/BTG VORTAC 17.7 DME and hold.				
ATIS 128.35 269.9		PORTLAND APP CON★ 124.35 299.2		PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1



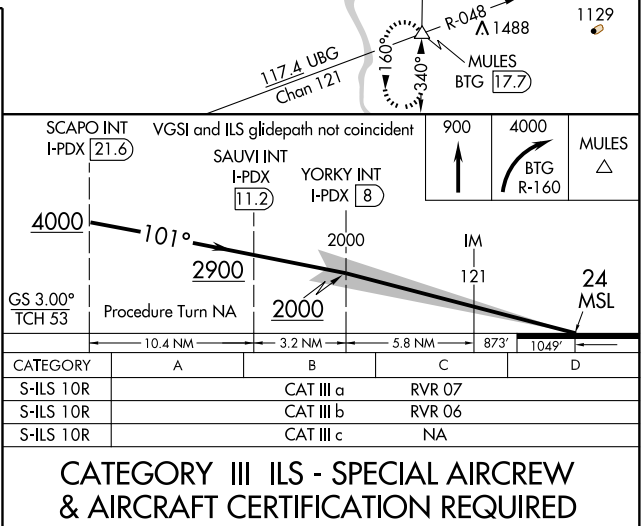
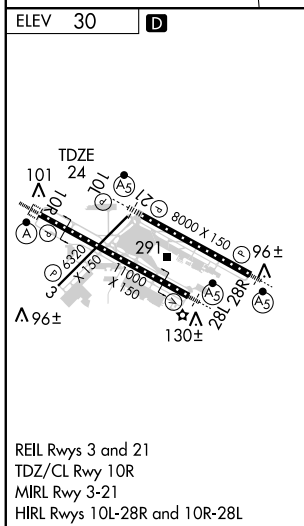
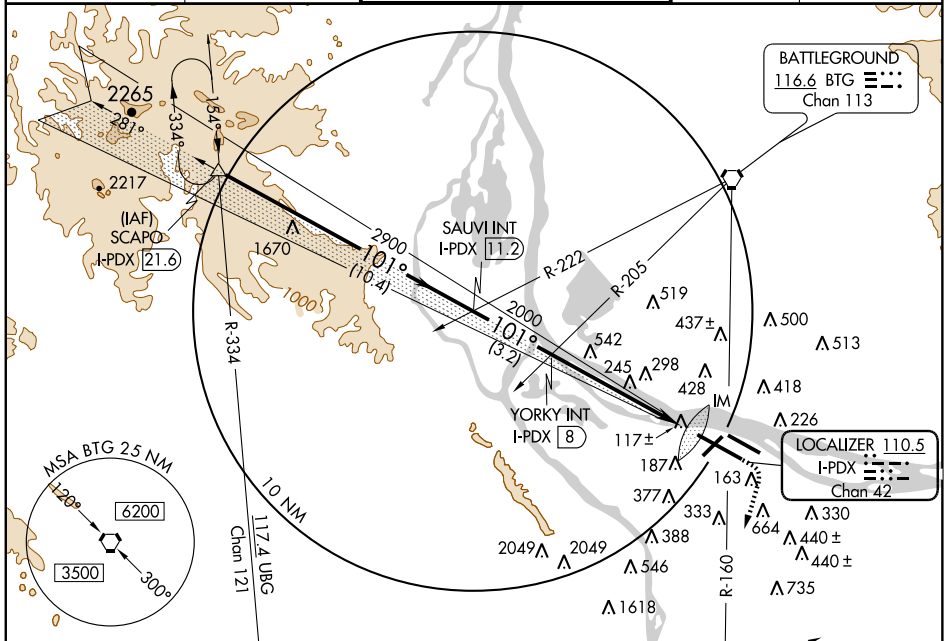
SCAPO INT I-PDX 21.6		VGSI and ILS glidepath not coincident		900 ↑	4000 BTG R-160	MULES △
SAUVI INT I-PDX 11.2		YORKY INT I-PDX 8				
GS 3.00° TCH 53						
CATEGORY	A	B	C	D		
S-ILS 10R	RA 107/12 100 DA 124					
CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED						

REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

LOC/DME I-PDX 110.5 Chan 42	APP CRS 101°	Rwy Idg TDZE Apt Elev	11000 24 30
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ILS RWY 10R (CAT III) PORTLAND INTL (PDX)

<p>ATIS 128.35 269.9</p>		<p>PORTLAND APP CON* 124.35 299.2</p>		<p>PORTLAND TOWER Rwy 10L-28R 118.7 257.8</p>		<p>Rwys 3-21, 10R-28L 123.775 251.125</p>		<p>GND CON 121.9 348.6</p>		<p>CLNC DEL 120.125 318.1</p>	
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NW-1. 03 JUN 2010 to 01 JUL 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

PENDLETON TRANSITION (LAVAA2.PDT)

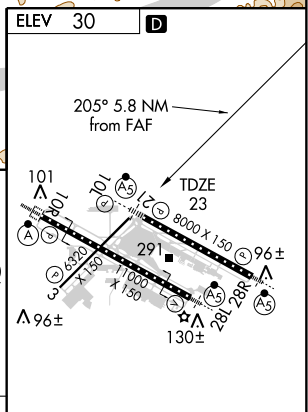
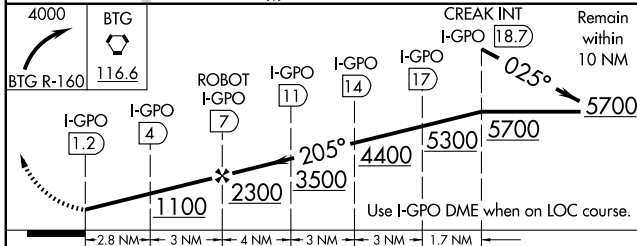
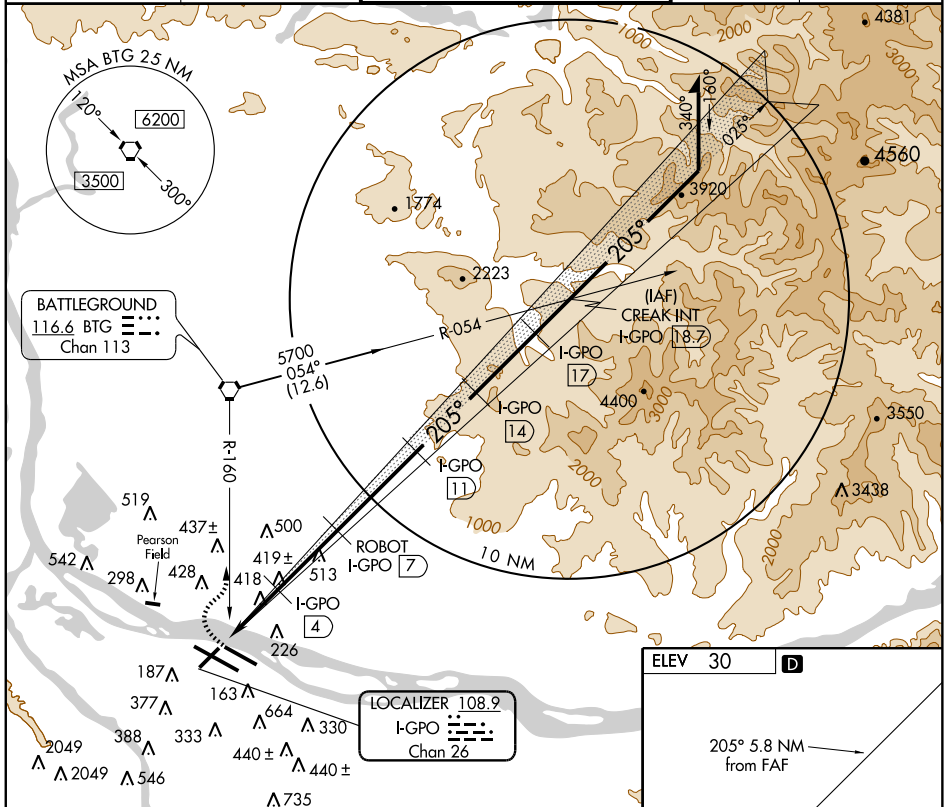
YAKIMA TRANSITION (LAVAA2.YKM)

LOC/DME I-GPO 108.9 Chan 26	APP CRS 205°	Rwy Idg TDZE Apt Elev 6320 23 30
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LOC/DME RWY 21

PORTLAND INTL (PDX)

<div><div>V</div><div>A</div></div>		MISSED APPROACH: Climbing right turn to 4000 via BTG R-160 to BTG VORTAC.		
ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
		Rwys 3-21, 10R-28L 123.775 251.125		



CATEGORY	A	B	C	D
S-21	680-1 657 (700-1)	680-1 657 (700-1)	680-1 657 (700-1)	680-2 657 (700-2)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

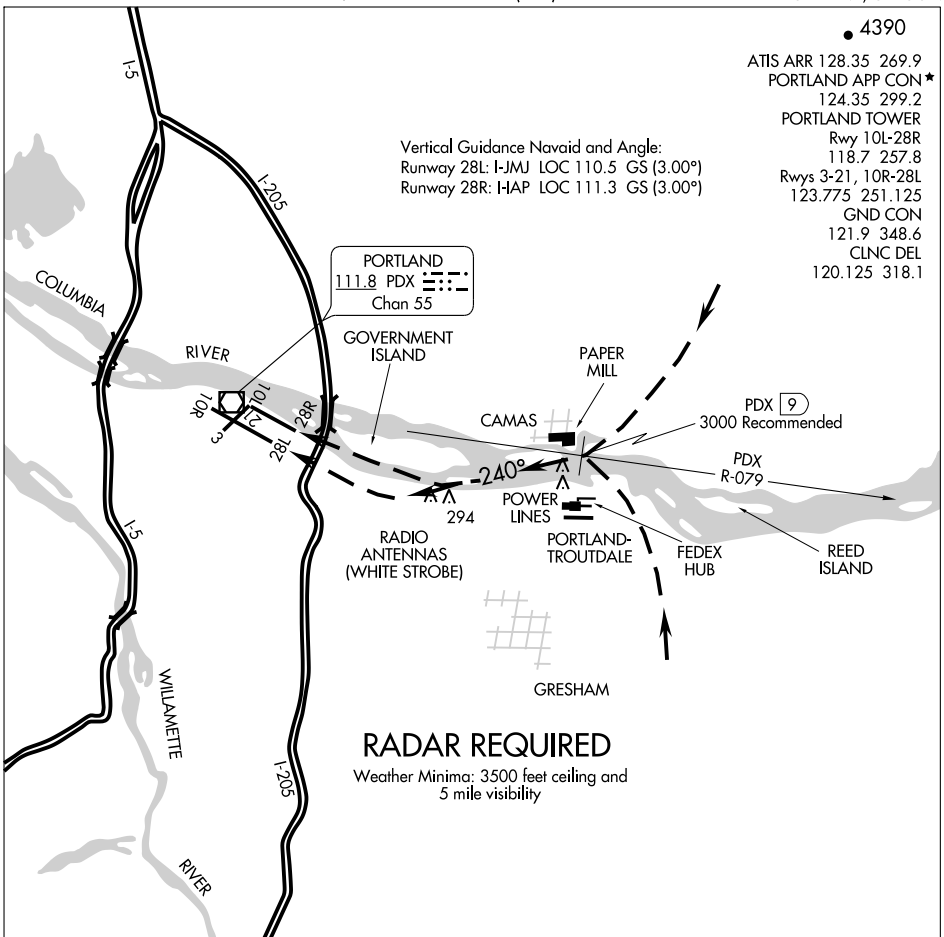
REIL Rwys 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwys 10L-28R and 10R-28L

MILL VISUAL RWY 28L/R

AL-330 (FAA)

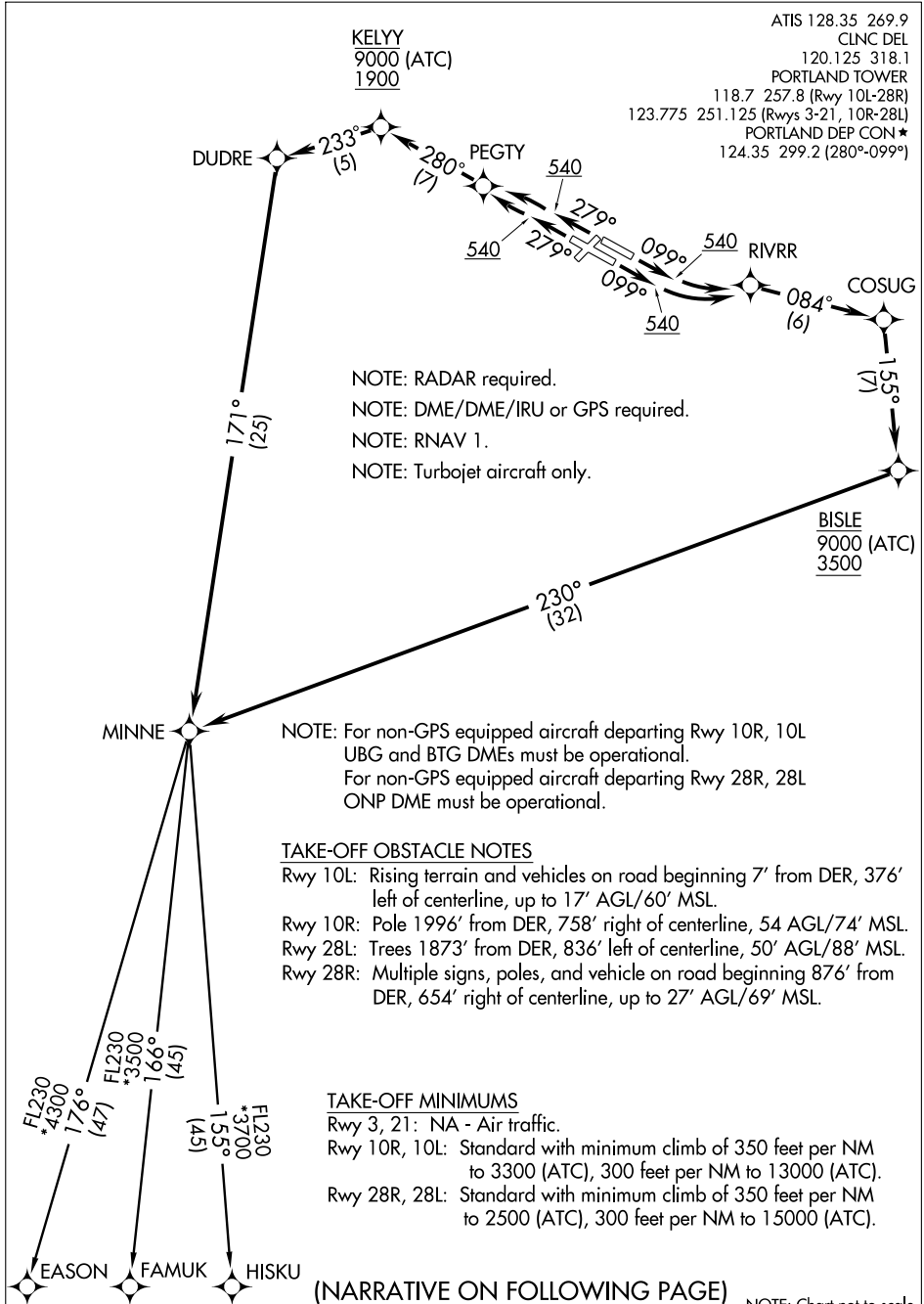
PORTLAND INTL (PDX)

PORTLAND, OREGON



23

When visual approaches to Runways 28L/R are in progress, clearances to aircraft will be issued utilizing the following phraseology: "(IDENT) CLEARED FOR MILL VISUAL RUNWAY 28 LEFT/RIGHT APPROACH."





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct to RIVRR, then via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500, then via track 230° to MINNE, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500, then via track 230° to MINNE, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE, then via track 171° to MINNE, thence....

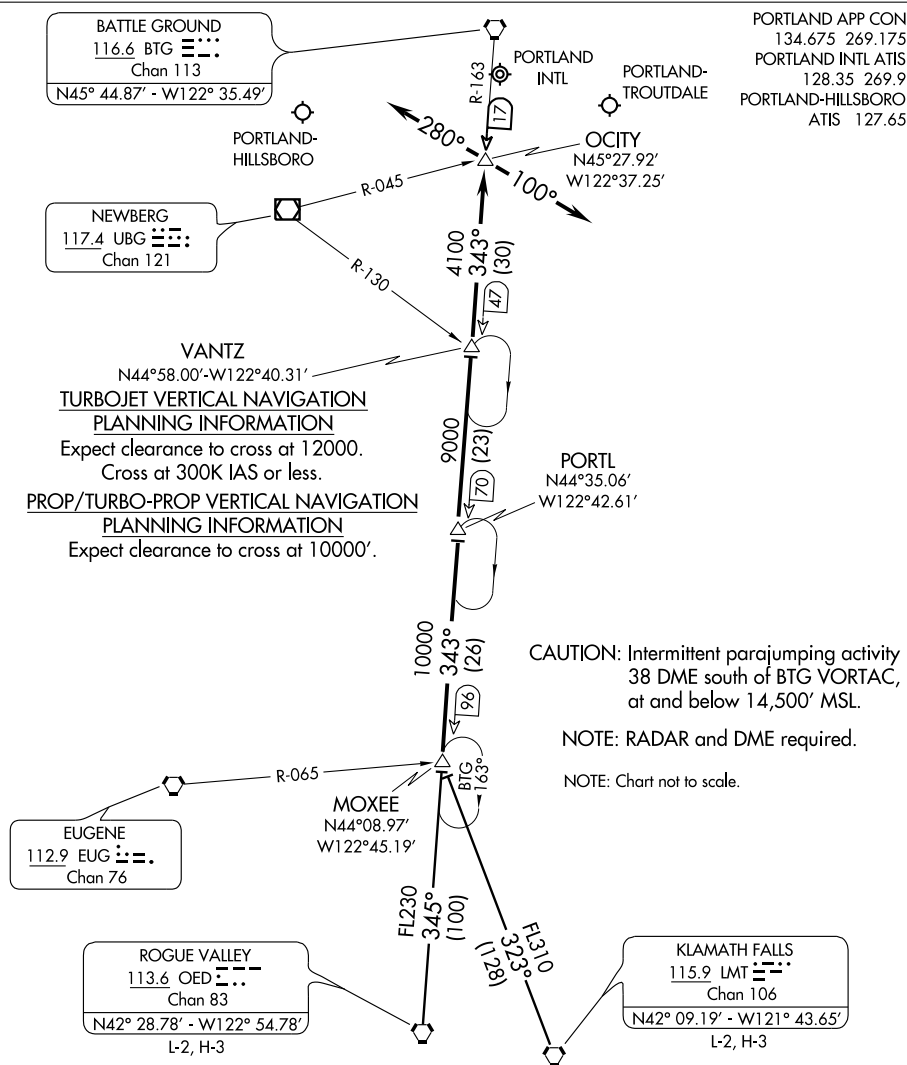
TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE, then via track 171° to MINNE, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

EASON TRANSITION (MINNE2.EASON)

FAMUK TRANSITION (MINNE2.FAMUK)

HISKU TRANSITION (MINNE2.HISKU)



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence . . .

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence . . .

. . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

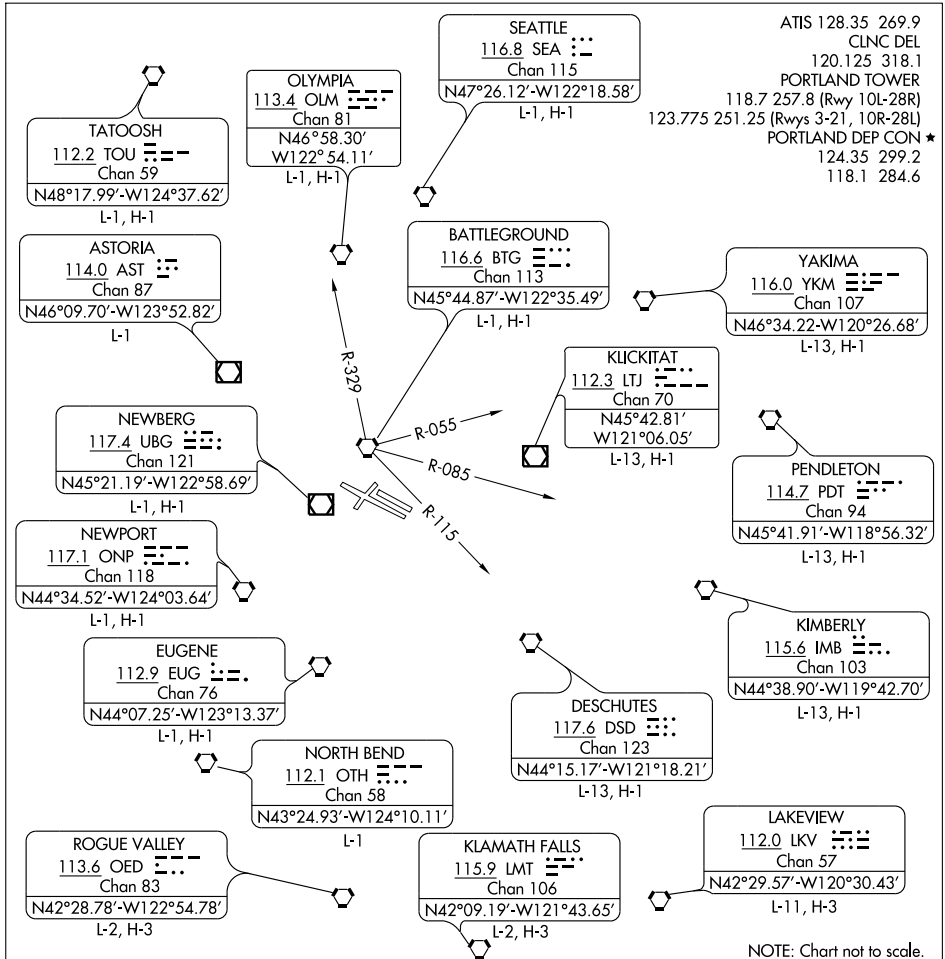
LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

PORTLAND SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON



NOTE: Chart not to scale.

TAKE-OFF MINIMUMS:

Rwy 3: Standard with minimum climb of 400' per NM to 2700.

Rwy 21: Standard with minimum climb of 450' per NM to 2900.

Rwy 10R: Standard with minimum climb of 375' per NM to 2700.

Rwy 10L: Standard with minimum climb of 350' per NM to 2700.

Rwy 28L: Standard with minimum climb of 375' per NM to 2900.

Rwy 28R: Standard with minimum climb of 350' per NM to 2900.

NOTE: RADAR REQUIRED.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb heading 025° to 600 thence....

TAKE-OFF RWY 10L: Climb heading 099° to 500 thence...

TAKE-OFF RWY 10R: Climb heading 099° to 500 thence....

TAKE-OFF RWY 28L: Climb heading 279° to 800 thence....

TAKE-OFF RWY 28R: Climb heading 279° to 800 thence....

TAKE-OFF RWY 21: Climb heading 205° to 500 thence....

....via assigned heading expect radar vectors to assigned route/fix. Maintain 3000, expect filed altitude five minutes after departures.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport, continue climb to assigned altitude and proceed direct BTG VORTAC. Continue climb via BTG R-329 within 10 NM to cross BTG VORTAC: BTG R-355 clockwise R-055 or R-085 clockwise R-115 at or above 5000 feet. Continue climb on course.

TAKE-OFF OBSTACLE NOTES:

Rwy 3: Signs, tower, trees, and vehicle on road beginning 468' from DER, 28' left of centerline, up to 100' AGL/449' MSL.

Poles, trees, and vehicle on road beginning 609' from DER, 7' left of centerline, up to 100' AGL/416' MSL.

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

Rwy 21: Trees beginning 1319' from DER, 155' right of centerline, up to 100' AGL/318' MSL.

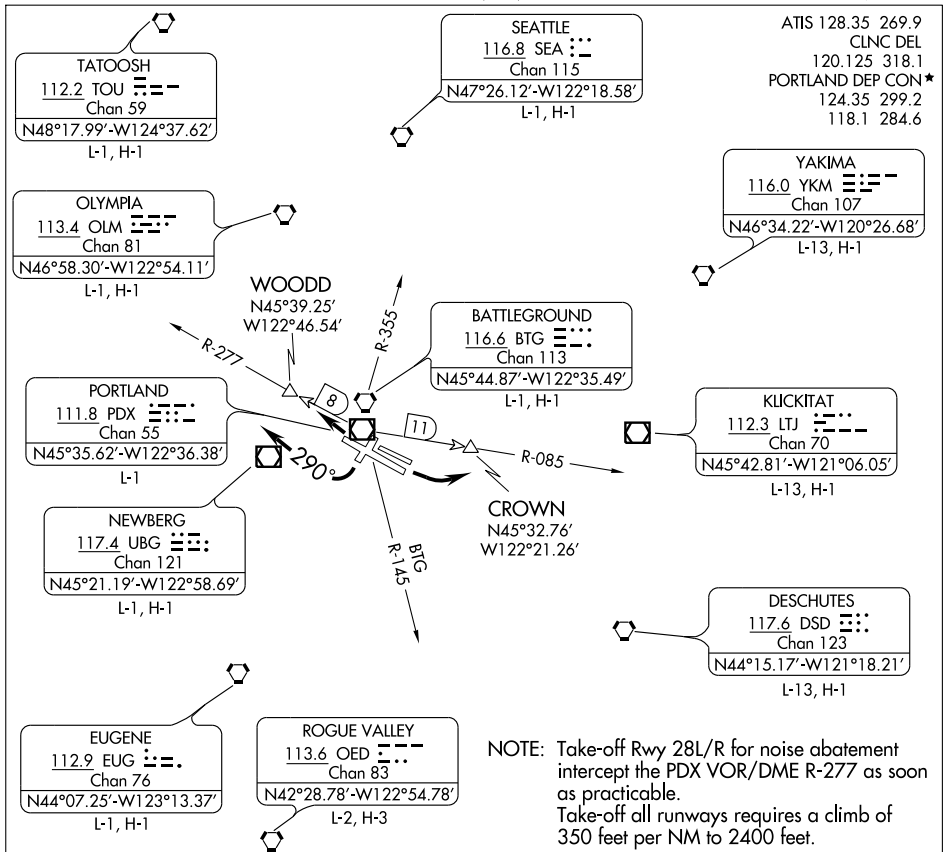
Poles and trees beginning 353' from DER, 36' left of centerline, up to 100' AGL/317' MSL.

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

RIVER SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R: Turn left, intercept and proceed via the PDX R-085 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAY 21: Turn right fly heading 290° or as assigned, expect radar vectors on course. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via the PDX R-277 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport or leaving 3,000', continue climb to assigned altitude and proceed direct to BTG VORTAC, thence via (assigned route). If proceeding via BTG VORTAC R-355 CW R-145, a 340 feet per NM climb is required to 13800 feet.

ALTERNATE LOST COMMUNICATIONS: When BTG VORTAC is out of service: If no contact with ATC leaving 3,000', continue climb to assigned altitude direct UBG VOR/DME.

▼

DME/DME RNP-0.3 NA.

▲

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 49°C (120°F).

MALSR

MISSED APPROACH: Climb to 3800 direct NACIY WP and hold.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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CATEGORY	A	B	C	D
LPV DA	330/24 300 (300-½)			
LNAV/VNAV DA	800-2¼ 770 (800-2¼)			800-2½ 770 (800-2½)
LNAV MDA	580/24 550 (600-½)	580/50 550 (600-1)		580/60 550 (600-1¼)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 40004 W10A	APP CRS 099°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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RNAV (GPS) RWY 10R
PORTLAND INTL (PDX)

- T** DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4F).
A Inoperative table does not apply to LNAV/VNAV all Cats.
 For inoperative ALSF-2 increase LPV visibility to RVR 6000.

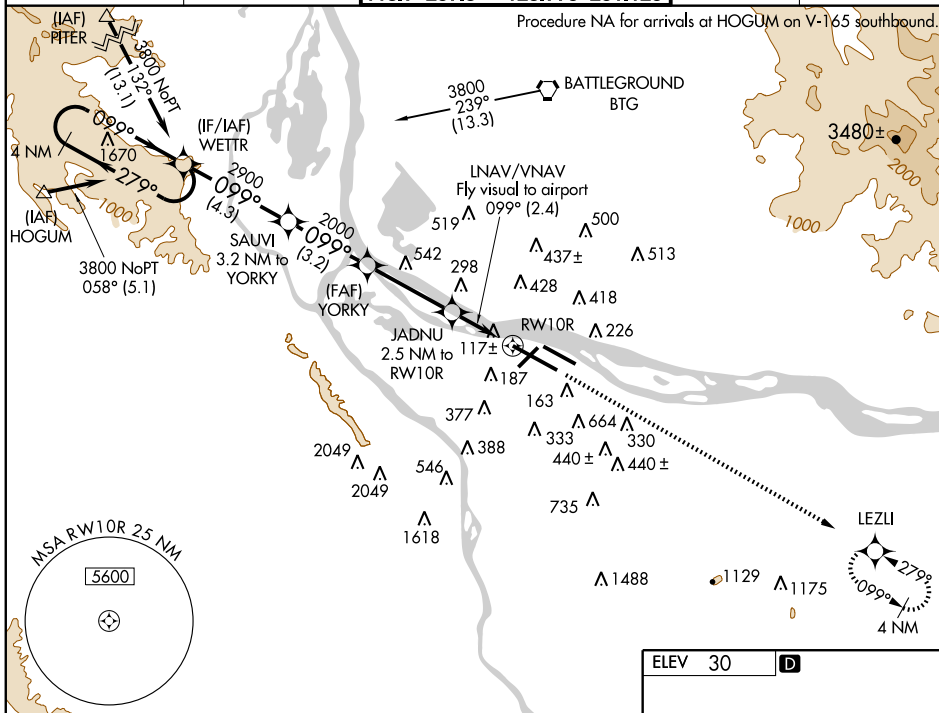
ALSF-2



MISSED APPROACH: Climb to 3500 direct LEZU and hold.

ATIS 128.35 269.9	PORTLAND APP CON * 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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Procedure NA for arrivals at HOGUM on V-165 southbound.



NW-1. 03 JUN 2010 to 01 JUL 2010

4 NM Holding Pattern

WETTR

SAUVI 3.2 NM to YORKY

YORKY

JADNU 2.5 NM to RW10R

3500

LEZLI

3800

279°

099°

099°

2900

GS 3.00° TCH 53

2000

860

1.5 NM to RW10R

RW10R

*LNAV only

LNAV/VNAV Fly Visual 099° 2.4 NM

4.3 NM

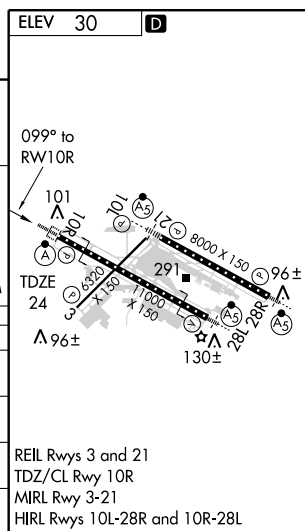
3.2 NM

3.4 NM

1.5



VGSB and RNAV glidepath not coincident.

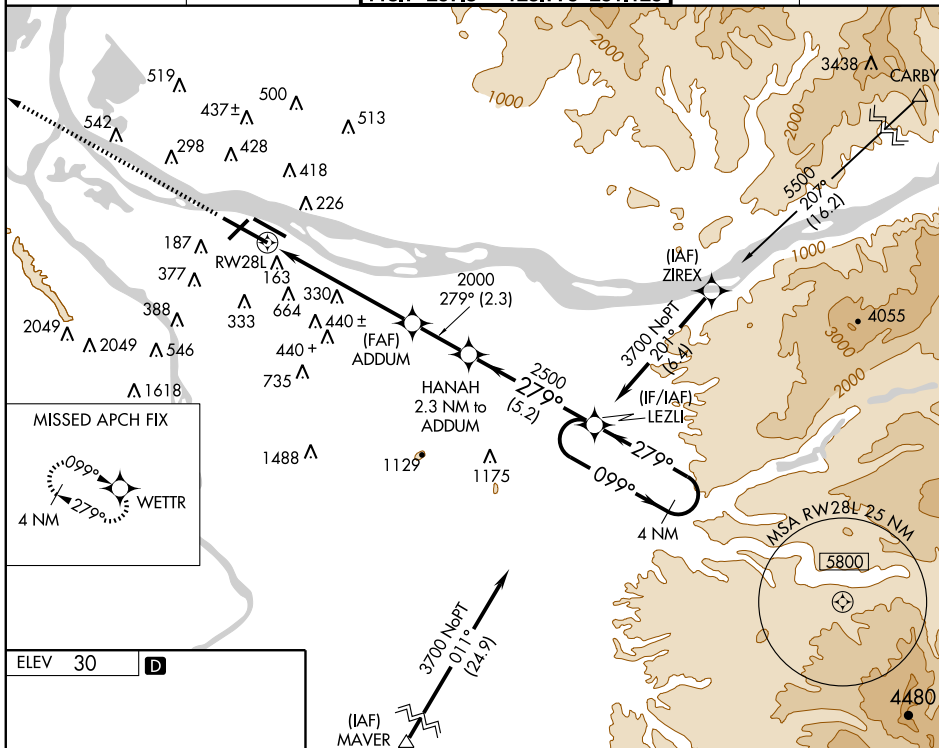
CATEGORY	A	B	C	D
LPV DA	390/40 366 (400-34)			
LNAV/VNAV DA	660-2 636 (700-2)			
LNAV MDA	540/24 516 (600-½)	540/50 516 (600-1)	540/60 516 (600-1¼)	
CIRCLING	720-5 690 (700-5)	740-5 710 (800-5)	1020-5 990 (1000-5)	




WAAS CH 56205 W28B	APP CRS 279°	Rwy Idg 11000 TDZE 23 Apt Elev 30
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RNAV (GPS) RWY 28L
PORTLAND INTL (PDX)

 DME/DME RNP-0.3 NA.		MALSR 	MISSED APPROACH: Climb to 3800 direct WETTR and hold.	
ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6
				CLNC DEL 120.125 318.1



NW-1. 03 JUN 2010 to 01 JUL 2010

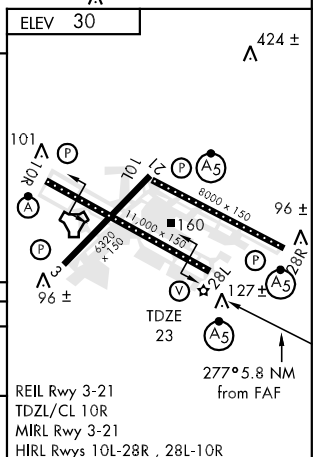
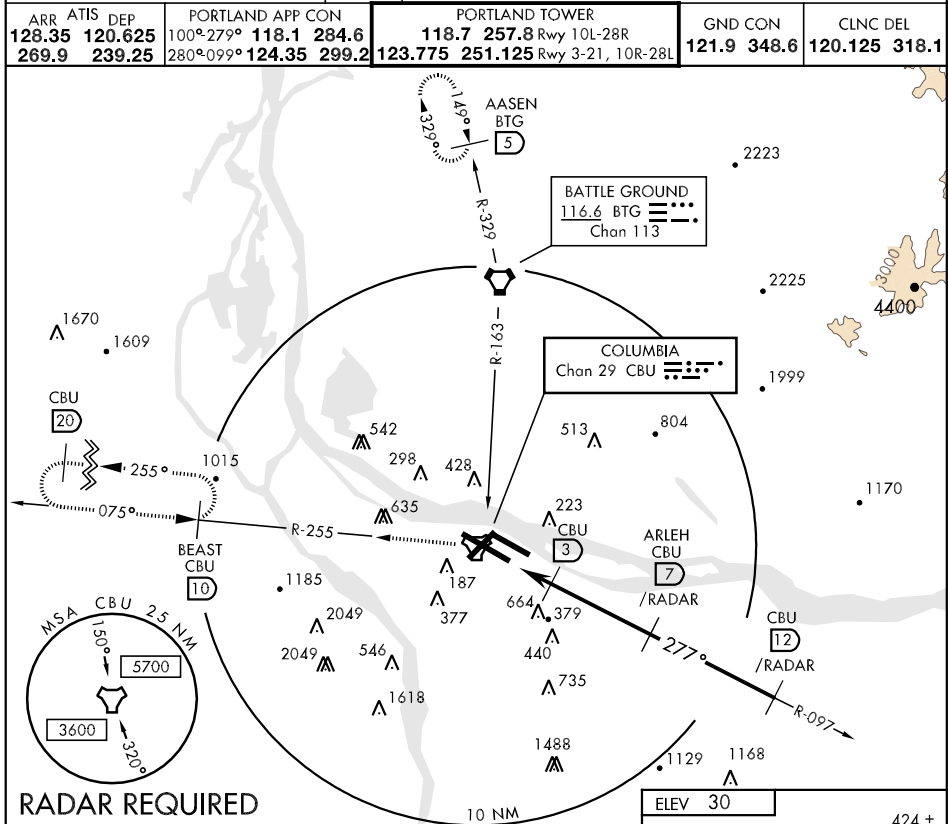
<div>3800</div> <div>↑</div>		<div>WETTR</div> <div></div>	VGSJ and RNAV glidepath not coincident.				
*LNAV only		<div><div><div><div><div><div>4 NM Holding Pattern</div><div>LEZLI</div></div><div><div>099° →</div><div>← 279°</div></div><div><div>3700</div><div>GS 3.00°</div><div>TCH 55</div></div></div><div><div><div>279°</div><div>2500</div></div><div><div>2000</div><div>ADDUM</div><div>HANAH</div><div>2.3 NM to ADDUM</div></div><div><div>1.8 NM to RW28L</div><div>RW28L</div></div></div><div><div>1.8</div><div>4.1 NM</div><div>2.3 NM</div><div>5.2 NM</div></div></div></div></div>					
CATEGORY	A		B		C	D	
LPV	DA	340/24 317 (400-½)					
LNAV	MDA	660/24 637 (700-½)		660/60 637 (700-1¼)	660-1½ 637 (700-1½)		
CIRCLING	720-1½ 690 (700-½)		740-1½ 710 (800-1½)	740-2 710 (800-2)	1020-3 990 (1000-3)		

TACAN CBU Chan 29	APCH CRS 277°	Rwy Idg 11,000 TDZE 23 Arpt Elev 30
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AL-330 [USAF]

PORTLAND INTL (KPDY)

<p>ARR ATIS DEP 128.35 120.625 269.9 239.25</p>		<p>PORTLAND APP CON 100°279° 118.1 284.6 280°099° 124.35 299.2</p>		<p>PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L</p>		<p>GND CON 121.9 348.6</p>		<p>CLNC DEL 120.125 318.1</p>	
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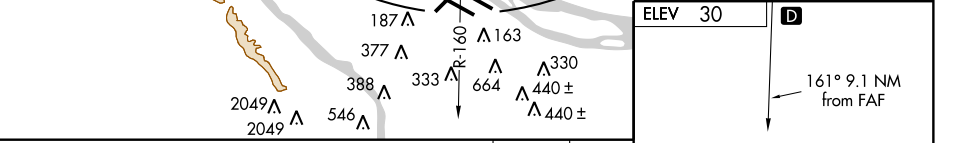
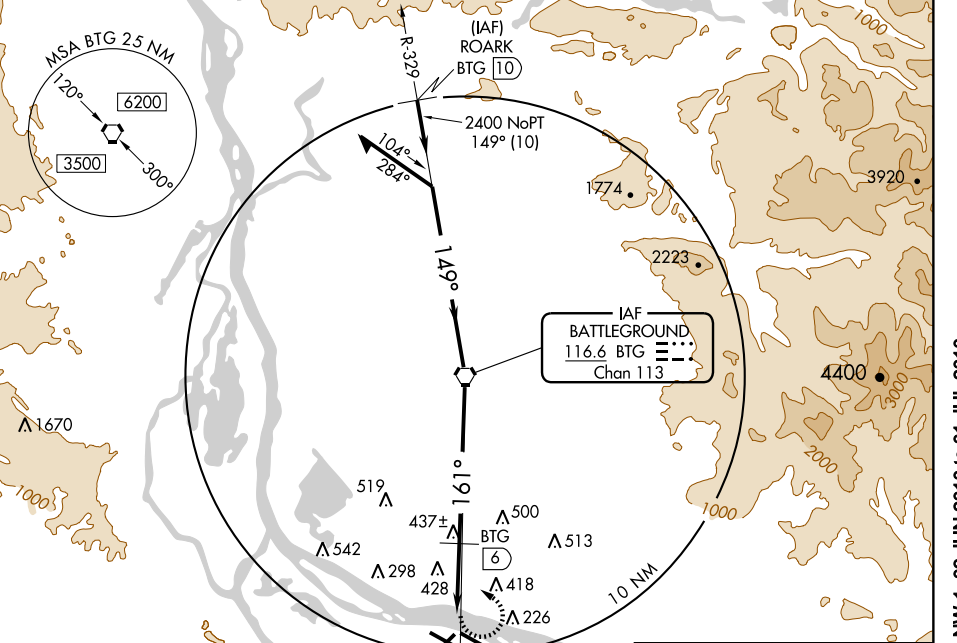
NW-1, 03 JUN 2010 to 01 JUL 2010

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▲

MISSED APPROACH: Climbing left turn to 4000 via BTG R-160 to BTG VORTAC.

<div>ATIS</div> <div>128.35 269.9</div>	<div>PORTLAND APP CON ★</div> <div>124.35 299.2</div>	<div>PORTLAND TOWER</div> <div>Rwy 10L-28R</div> <div>118.7 257.8</div> <div>Rwys 3-21, 10R-28L</div> <div>123.775 251.125</div>	<div>GND CON</div> <div>121.9 348.6</div>	<div>CLNC DEL</div> <div>120.125 318.1</div>
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<div>Remain within 10 NM</div> <div>VORTAC</div> <div>4100</div> <div>329°</div> <div>149°</div> <div>2400</div> <div>161°</div> <div>880</div> <div>6 NM</div> <div>3.1 NM</div>				<div>4000</div> <div>BTG</div> <div>R-160</div> <div>116.6</div> <div>BTG 9.1</div>
CATEGORY	A	B	C	D
CIRCLING	880-1 850 (900-1)	880-1¼ 850 (900-1¼)	880-2½ 850 (900-2½)	1020-3 990 (1000-3)
DME MINIMA				
CIRCLING	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	

REIL Rwys 3 and 21

TDZ/CL Rwy 10R

MIRL Rwy 3-21

HIRL Rwys 10L-28R and 10R-28L

FAF to MAP 9.1 NM

Knots	60	90	120	150	180
Min:Sec	9:06	6:04	4:33	3:38	3:02

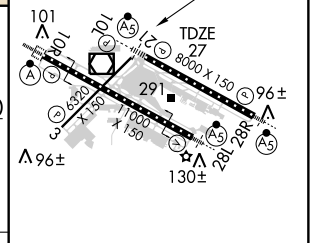
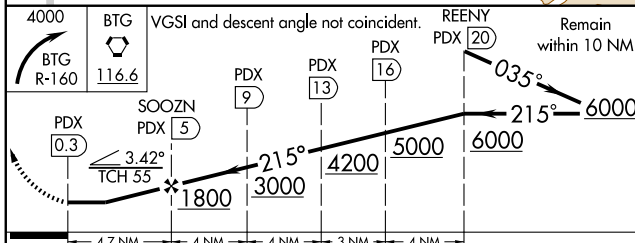
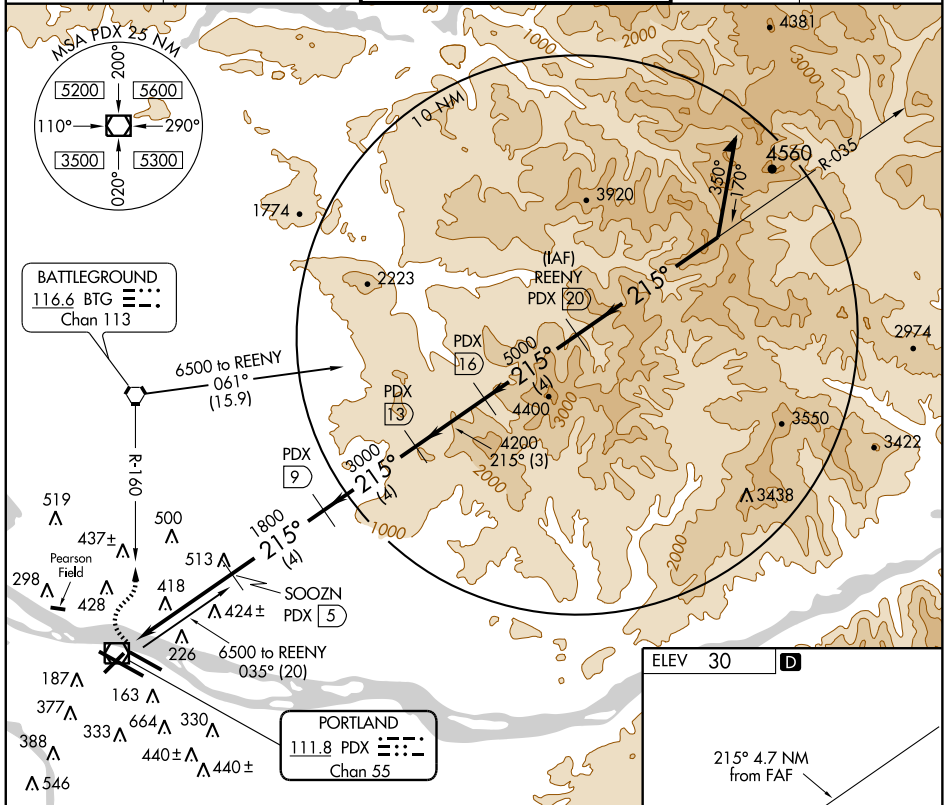
VOR/DME PDX	APP CRS	Rwy Idg	6320
111.8	215°	TDZE	27
Chan 55		Apt Elev	30

VOR/DME RWY 21

PORTLAND INTL (PDX)

<p>▼ Visibility reduction by helicopters NA.</p>	<p>MISSED APPROACH: Climbing right turn to 4000 via BTG R-160 to BTG VORTAC.</p>
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<p>ATIS</p> <p>128.35 269.9</p>	<p>PORTLAND APP CON *</p> <p>124.35 299.2</p>	<p>PORTLAND TOWER</p> <p>Rwy 10L-28R Rwys 3-21, 10R-28L</p> <p>118.7 257.8 123.775 251,125</p>	<p>GND CON</p> <p>121.9 348.6</p>	<p>CLNC DEL</p> <p>120.125 318.1</p>
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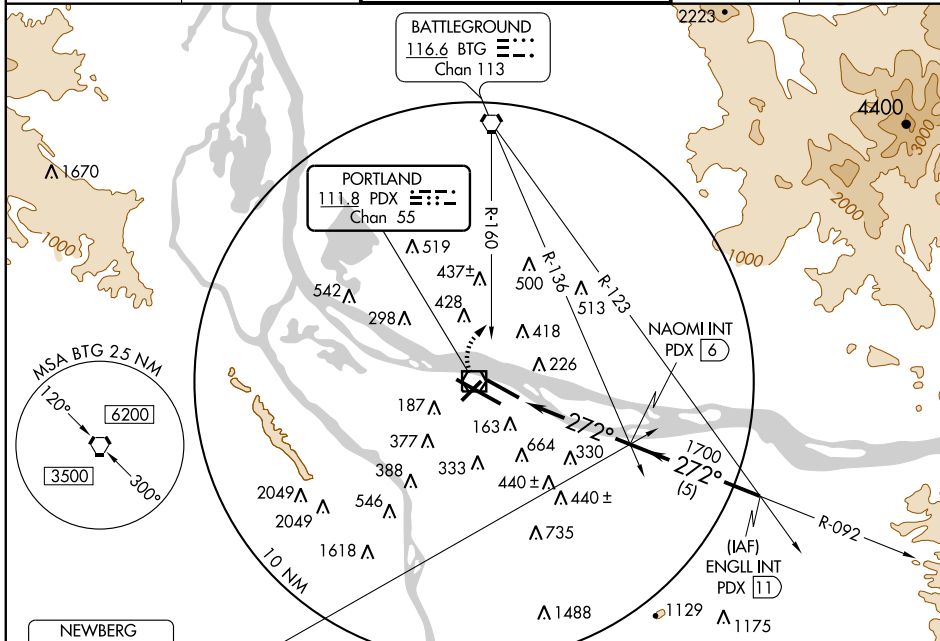
CATEGORY	A	B	C	D	
S-21	720-1 693 (700-1)	720-2 693 (700-2)	720-2 1/4 693 (700-2 1/4)	720-2 1/4 693 (700-2 1/4)	REIL Rwy 3 and 21
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	TDZ/CL Rwy 10R
					MIRL Rwy 3-21
					HIRL Rwy 10L-28R and 10R-28L

VOR/DME PDX 111.8 Chan 55	APP CRS 272°	Rwy Idg 8000 TDZE 26 Apt Elev 30
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VOR RWY 28R

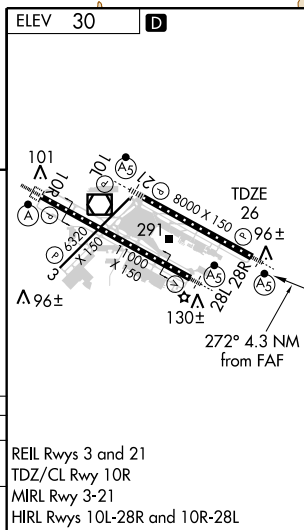
PORTLAND INTL (PDX)

<p>▼ ▲</p> <p>Inoperative table applies only to Cat. C and D.</p>		<p>MALSR</p>	<p>MISSED APPROACH: Climbing right turn to 4000 via BTG R-160 to BTG VORTAC.</p>	
ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1



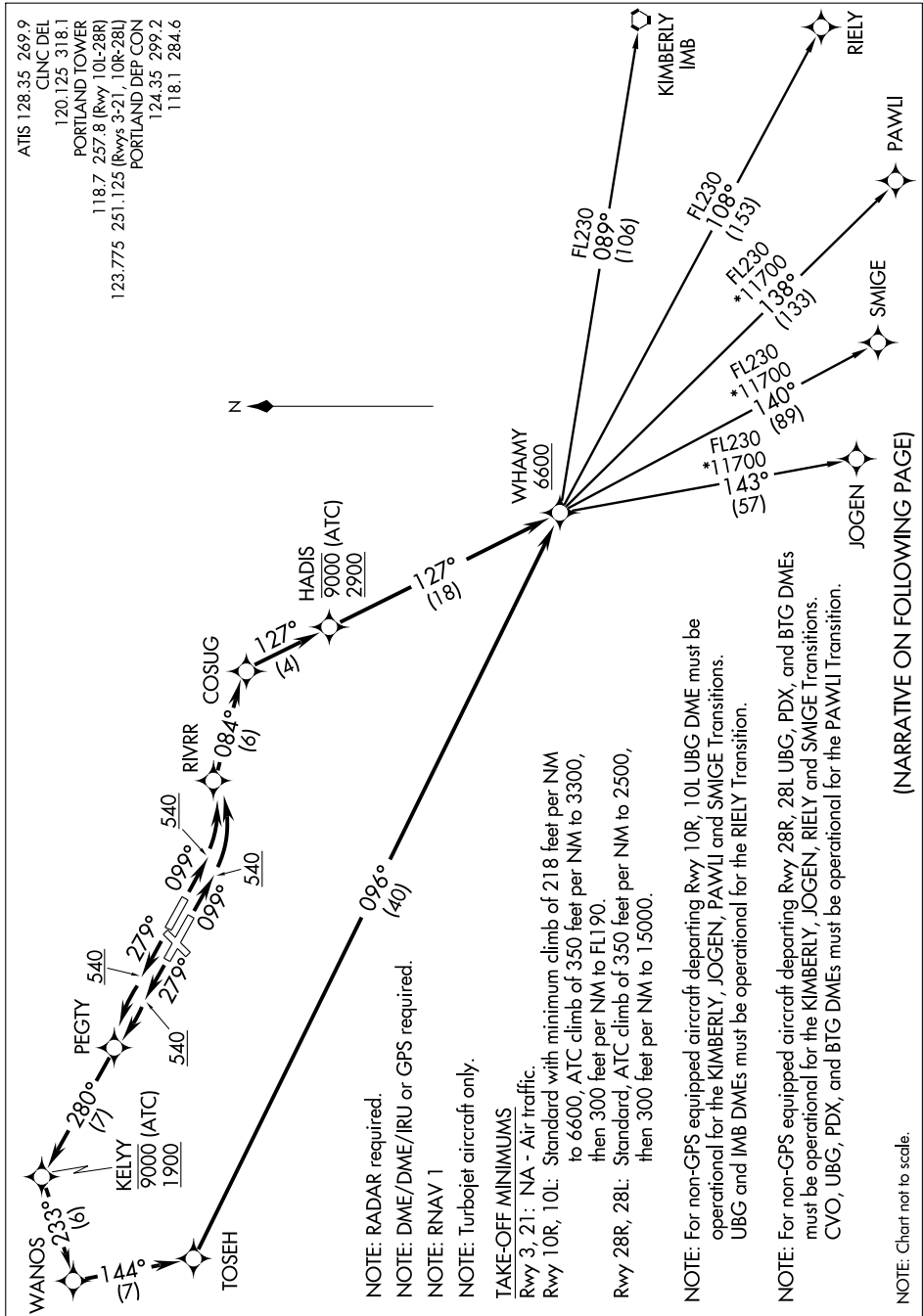
RADAR REQUIRED

<p>4000 BTG R-160</p>		<p>BTG 116.6</p>		<p>ENGL INT PDX 11</p>	
<p>NAOMI INT PDX 6</p>		<p>3000</p>		<p>1700</p>	
<p>VOR/DME</p>		<p>272°</p>		<p>4.3 NM</p>	
<p>1.7</p>		<p>5 NM</p>		<p>3000</p>	
CATEGORY	A	B	C	D	
S-28R	600/50 574 (600-1)			600/60 574 (600-1)	
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	



WHAMY ONE DEPARTURE (RNAV)

SL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

JOGEN TRANSITION (WHAMY1.JOGEN)

KIMBERLY TRANSITION (WHAMY1.IMB)

PAWLI TRANSITION (WHAMY1.PAWLI)

RIELY TRANSITION (WHAMY1.RIELY)

SMIGE TRANSITION (WHAMY1.SMIGE)

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

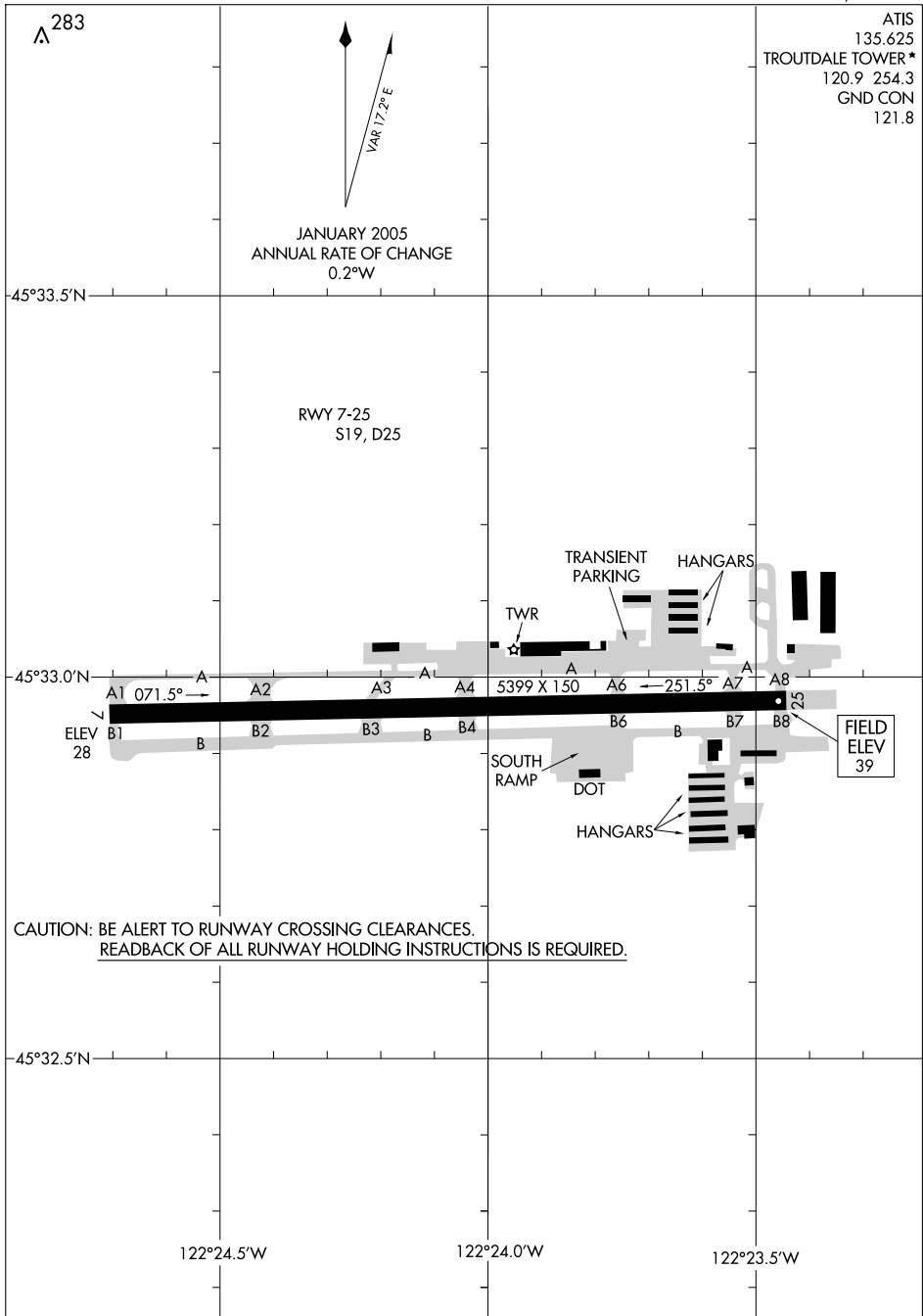
Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

AIRPORT DIAGRAM

AL-649 (FAA)

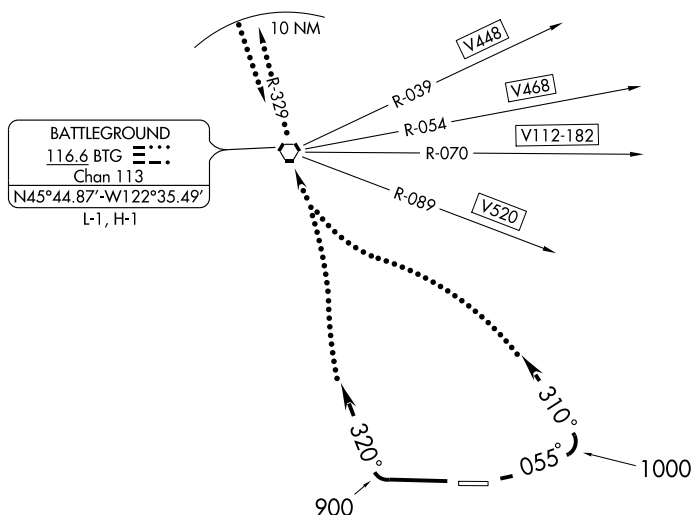
PORTLAND-TROUTDALE (TTD)

PORTLAND, OREGON



NW-1, 03 JUN 2010 to 01 JUL 2010

CTAF 120.9



NOTE: Rwy 7 requires a minimum climb gradient of 420' per NM to 4000'.

Rwy 25 requires a minimum climb of 310' per NM to 2000'.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climb via heading 055° to 1000', then turn left to 310° or as assigned.

TAKE-OFF RUNWAY 25: Climb runway heading to 900', then turn right to 320° or as assigned.

LOST COMMUNICATIONS: Proceed direct to BTG VORTAC. Continue climb on the BTG R-329 within 10 NM to cross BTG VORTAC at or above: NE-bound V448, 9400'; NE-bound V468, 4500'; E-bound V112, V182, V520, 4700'; for non airways BTG R-355 CW BTG R-120, 8800'; all others, 2500'.

ALTERNATE LOST COMMUNICATIONS PROCEDURE: When BTG VORTAC is out of service: if no contact with ATC leaving 3000', continue climb to assigned altitude and proceed direct to UBG VOR/DME, thence via assigned route.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

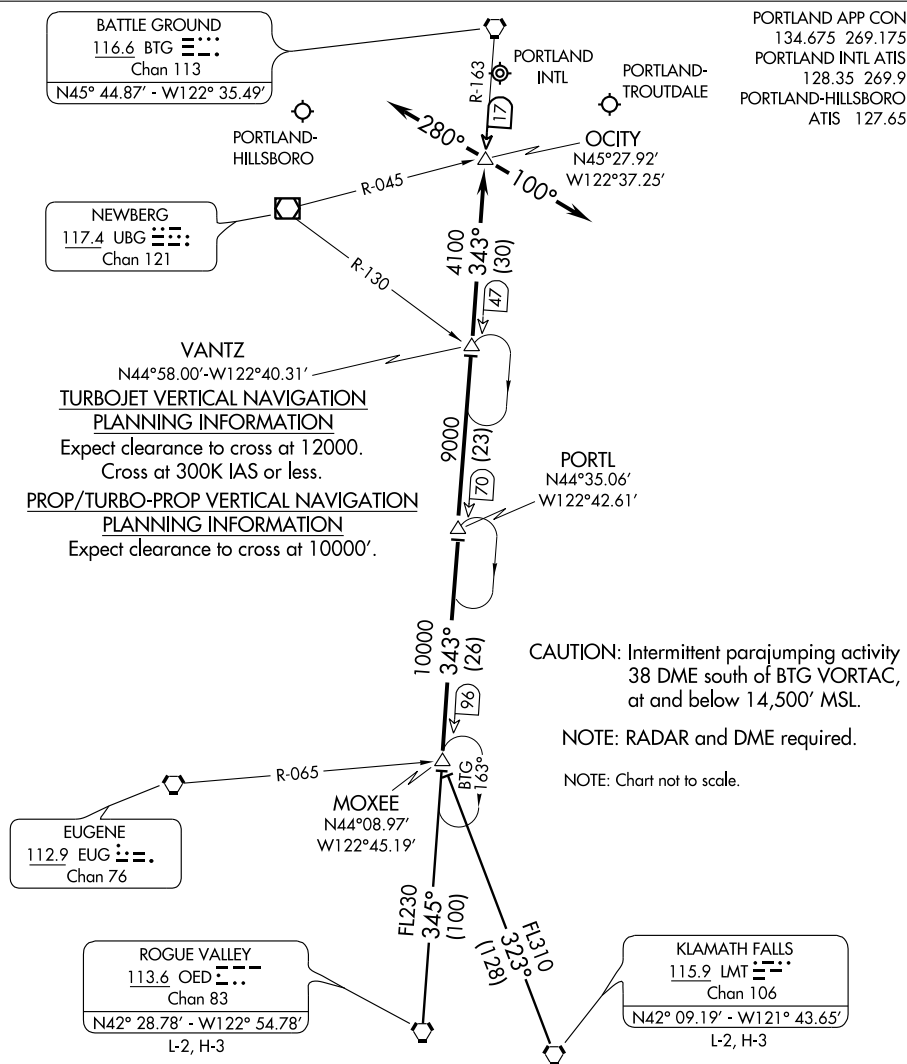
NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence . . .

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence . . .

. . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

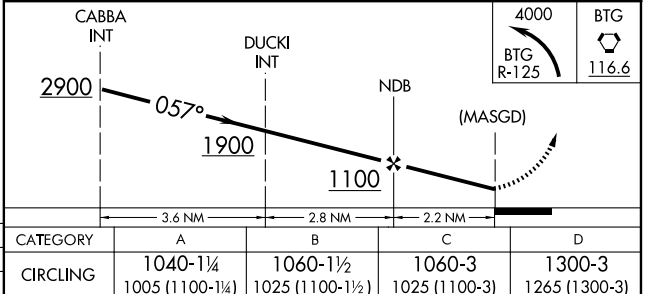
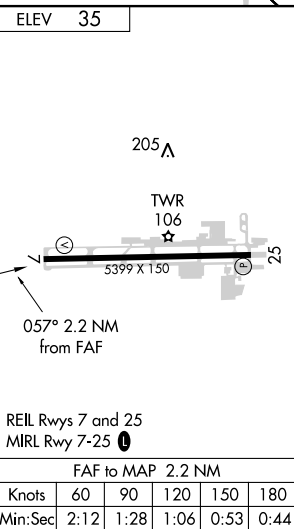
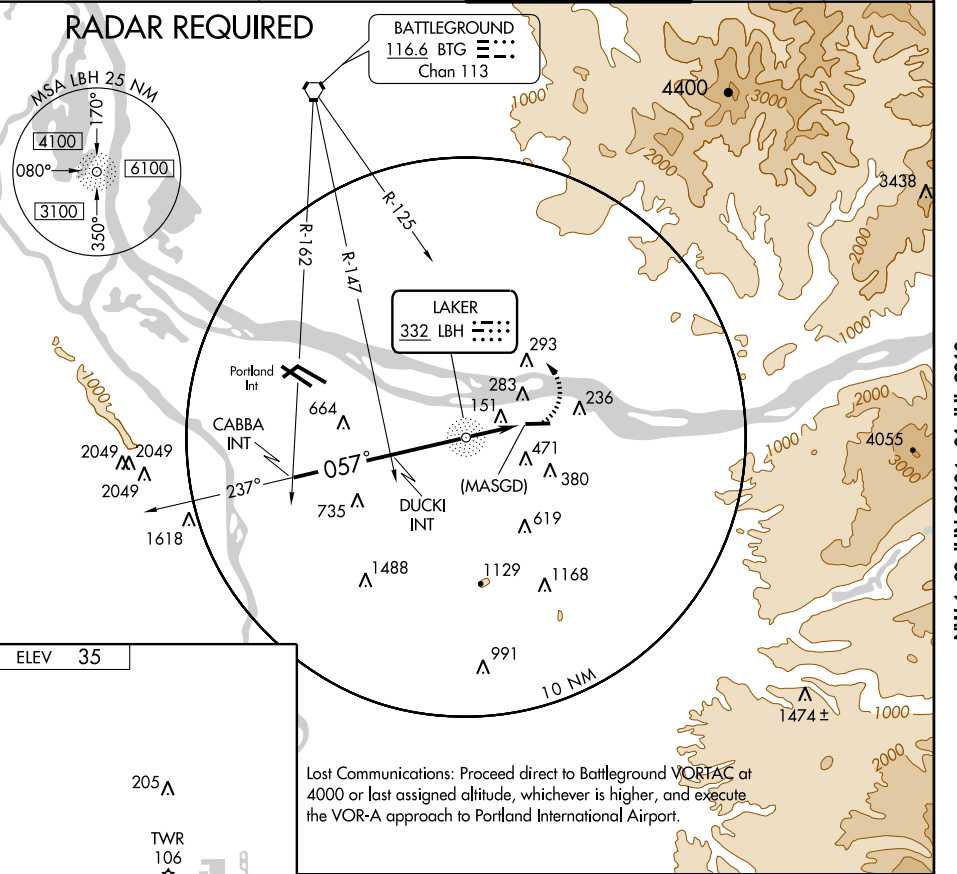
▽

▲

If local altimeter setting not received procedure not authorized.

MISSED APPROACH: Climbing left turn to 4000 via BTG R-125 to BTG VORTAC.

ATIS 135.625	PORTLAND APP CON 124.35 299.2	TROUTDALE TOWER ★ 120.9 (CTAF) 254.3	GND CON 121.8	UNICOM 122.95
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NW-1. 03 JUN 2010 to 01 JUL 2010

DESCHUTES ONE DEPARTURE (RNAV)

SEATTLE CENTER
128.15 257.75
UNICOM 122.8 (CTAF)

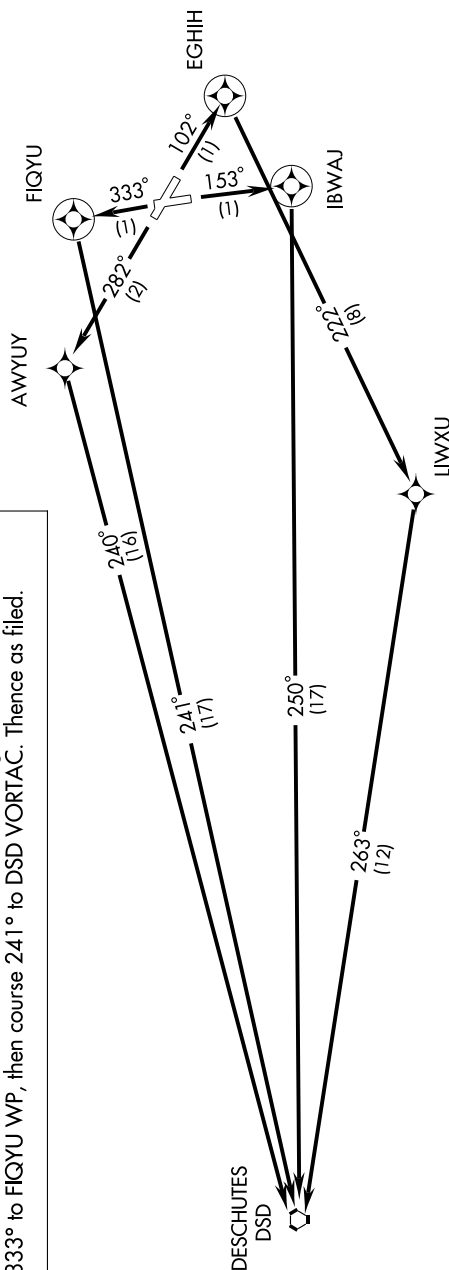
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10: Climb to 9000 (or ATC assigned altitude) via course 102° to EGHIIH WP, then course 222° to LIWXU WP, then course 263° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 15: Climb to 9000 (or ATC assigned altitude) via course 153° to IBWAJ WP, then course 250° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 28: Climb to 9000 (or ATC assigned altitude) via course 282° to AWYUY WP, then course 240° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 33: Climb to 9000 (or ATC assigned altitude) via course 333° to FIQYU WP, then course 241° to DSD VORTAC. Thence as filed.



NOTE: Standard with minimum climb gradient of 400' per NM to 9000', except V25 North requires minimum climb gradient of 400' per NM to 7000'.

NOTE: 1. GPS Required.

2. RNAV 1

NOTE: Chart not to scale.

▼

▲ NA

Use Roberts Field altimeter setting.

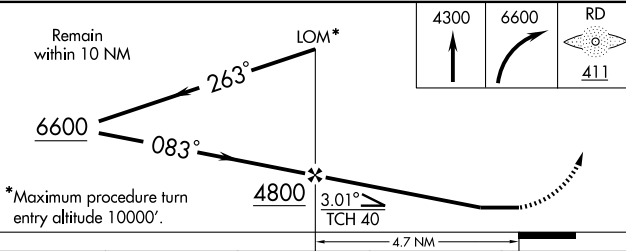
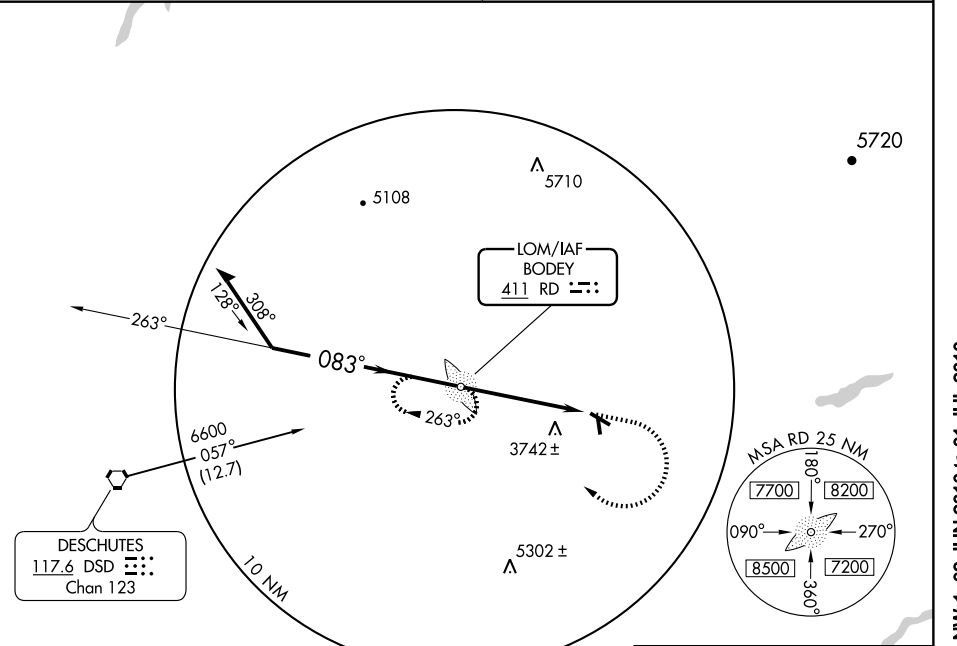
MISSED APPROACH: Climb to 4300 then climbing right turn to 6600 direct RD LOM and hold.

SEATTLE CENTER

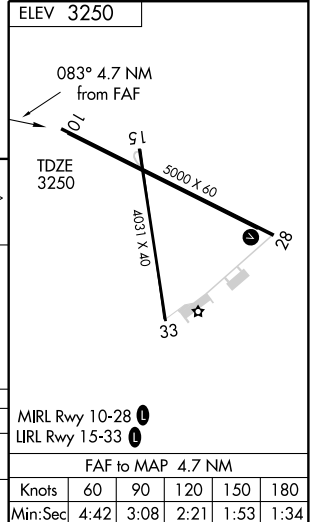
128.15 257.75

UNICOM

122.8 (CTAF) 0



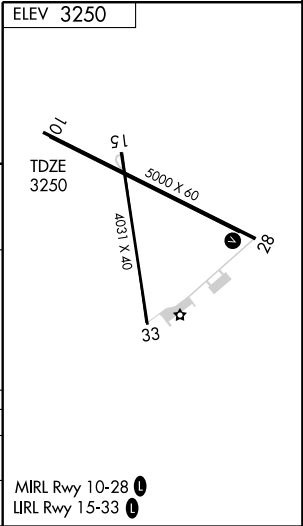
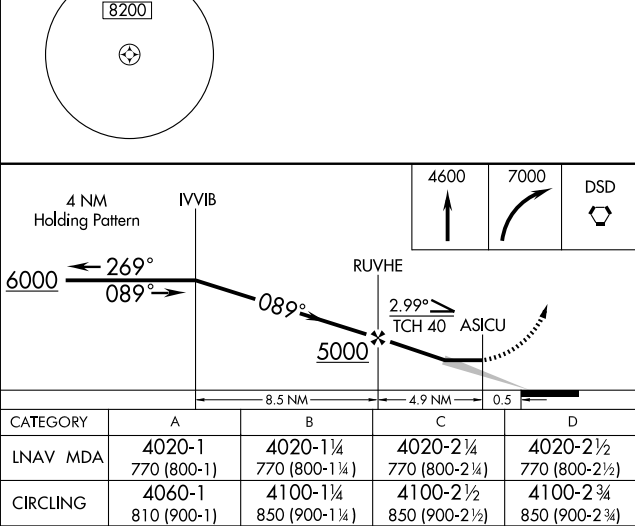
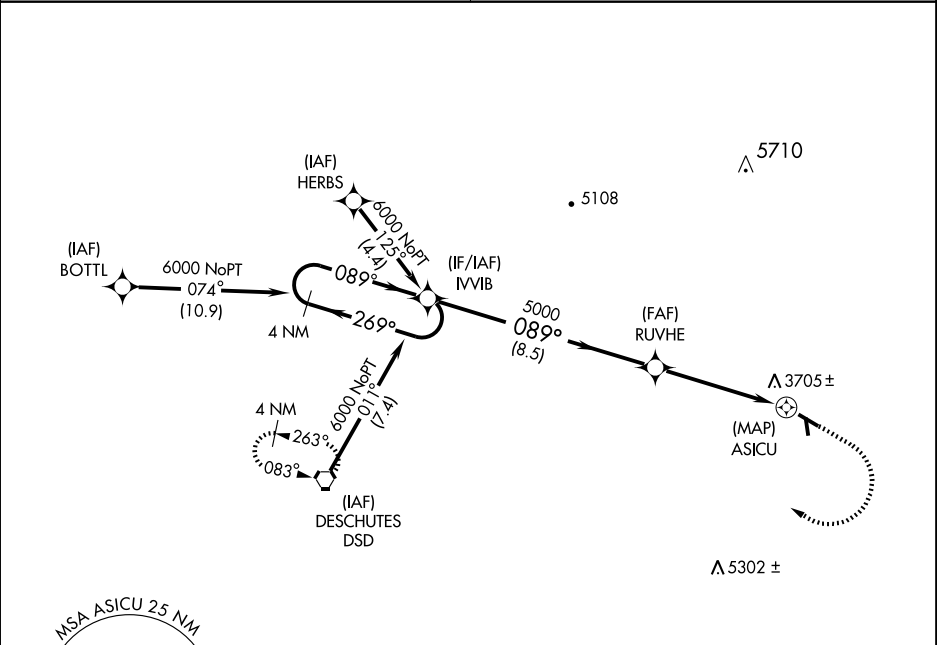
CATEGORY	A	B	C	D
S-10	4100-1 850 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)
CIRCLING	4100-1 850 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)



APP CRS 089°	Rwy Idg TDZE Apt Elev 5000 3250 3250
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RNAV (GPS) RWY 10
PRINEVILLE (S39)

▼ GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. ▲ NA Use Roberts Field altimeter setting.	MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.
SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0



▼

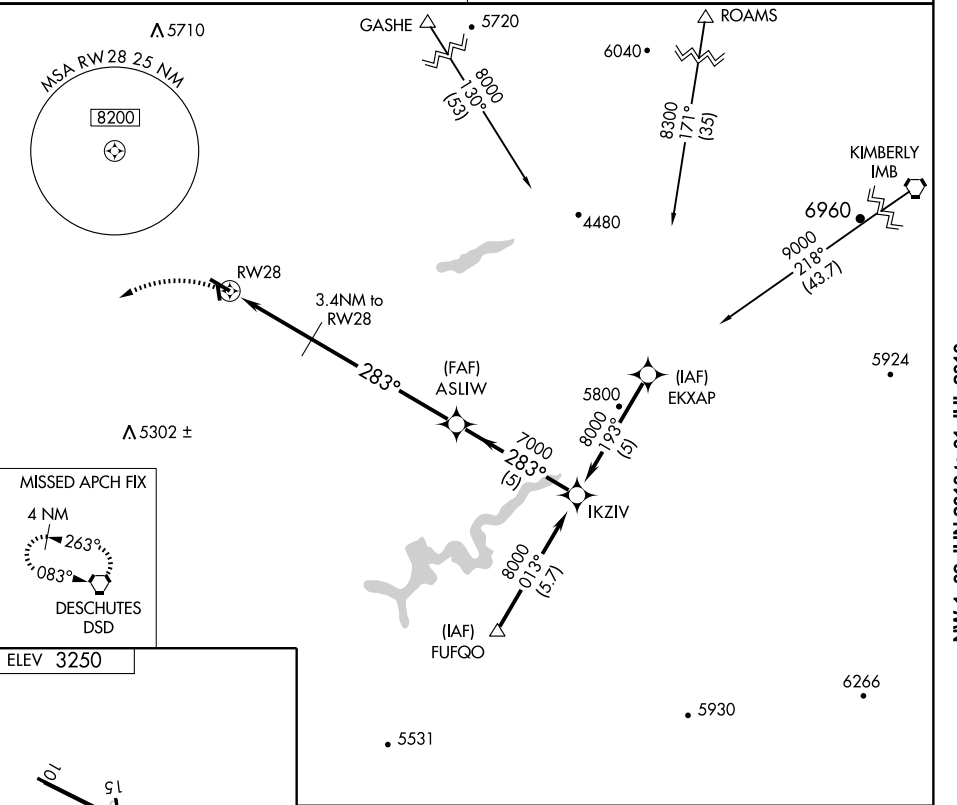
NA

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
Use Roberts Field altimeter setting.

MISSED APPROACH: Climbing left turn to 7000 direct DSD
VORTAC and hold.

SEATTLE CENTER
128.15 257.75

UNICOM
122.8 (CTAF)



MISSED APCH FIX

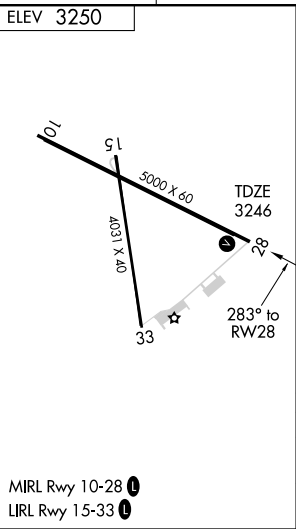
4 NM



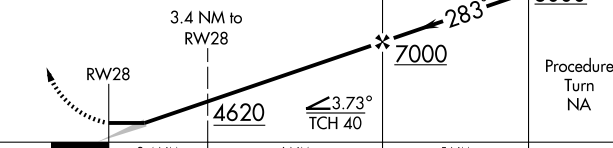
263°

083°

DESCHUTES
DSD

ELEV 3250



7000		DSD		VGSi and descent angles not coincident.		IKZIV	
						8000	
RW28		3.4 NM to RW28		ASLIW		Procedure Turn NA	
4620		3.4 NM		6 NM		5 NM	
3.4 NM		6 NM		5 NM			
CATEGORY		A		B		C	
LNAV MDA		3840-1 594 (600-1)		3840-1½ 594 (600-1½)		NA	
CIRCLING		4060-1 810 (900-1)		4100-1¼ 850 (900-1¼)		4100-2½ 850 (900-2½)	

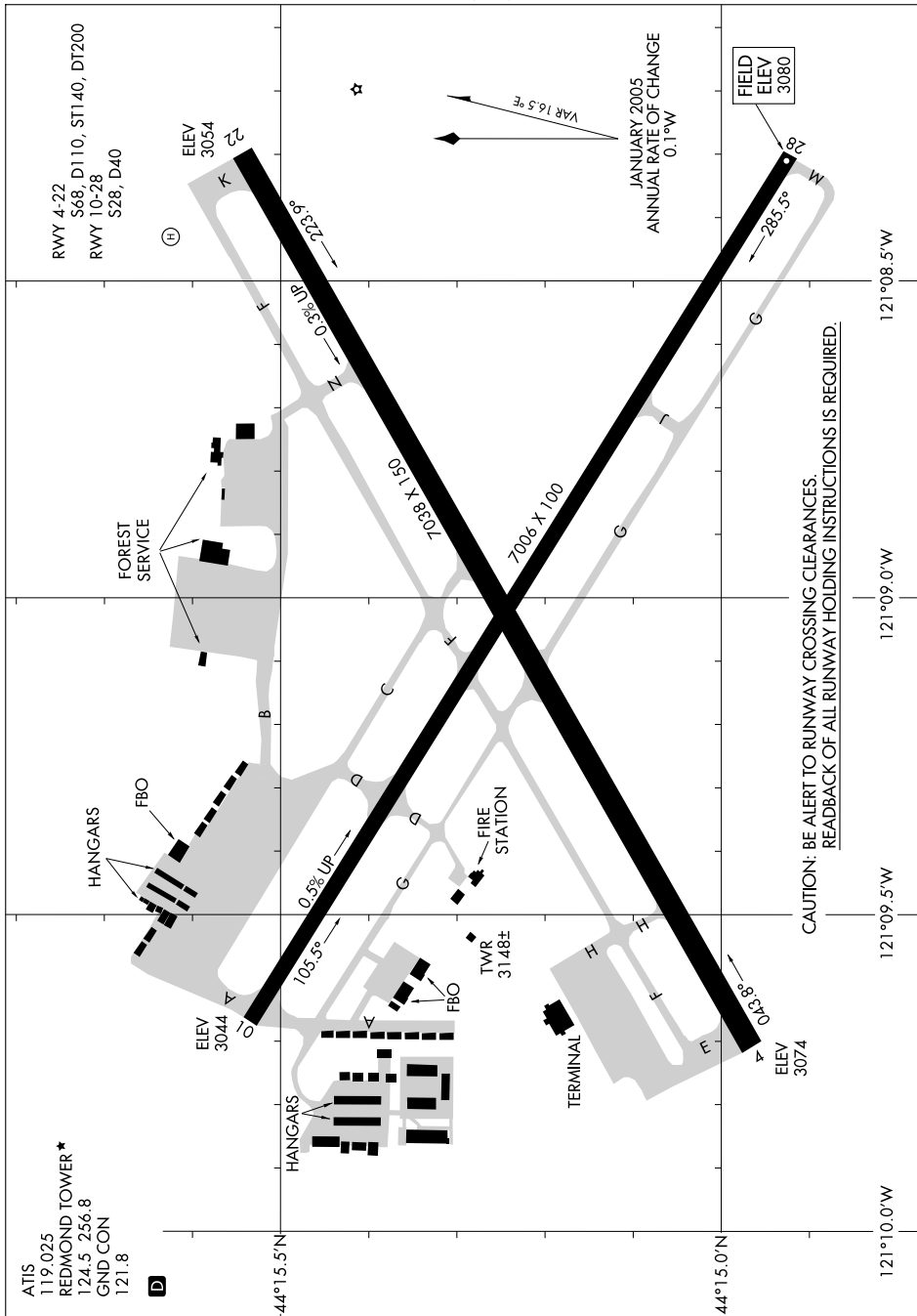
MIRL Rwy 10-28

LIRL Rwy 15-33

AIRPORT DIAGRAM

AL-345 (FAA)

REDMOND/ ROBERTS FIELD (RDM)
REDMOND, OREGON



NW-1. 03 JUN 2010 to 01 JUL 2010

LOC I-RDM <u>109.1</u>	APP CRS 222°	Rwy Idg TDZE Apt Elev	7038 3065 3080
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ILS or LOC RWY 22

REDMOND/ROBERTS FIELD (RDM)

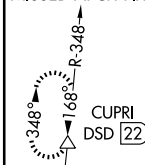
T For inoperative MALSR, increase S-ILS 22 Cat. E visibility to $\frac{3}{4}$.
A For inoperative MALSR, increase S-LOC 22 Cat. D and E visibility to 1. Autopilot coupled approach NA below 4370.

MALS

MISSED APPROACH: Climb to 3500 then climbing right turn to 7000 via heading 315° and DSD VORTAC R-348 to CUPRI/DSD 22 DME and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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MISSED APCH FIX



SEATTLE CENTER

128.15 257.75

REDMOND TOWER★
124.5 (CTAF) **L** 256.8

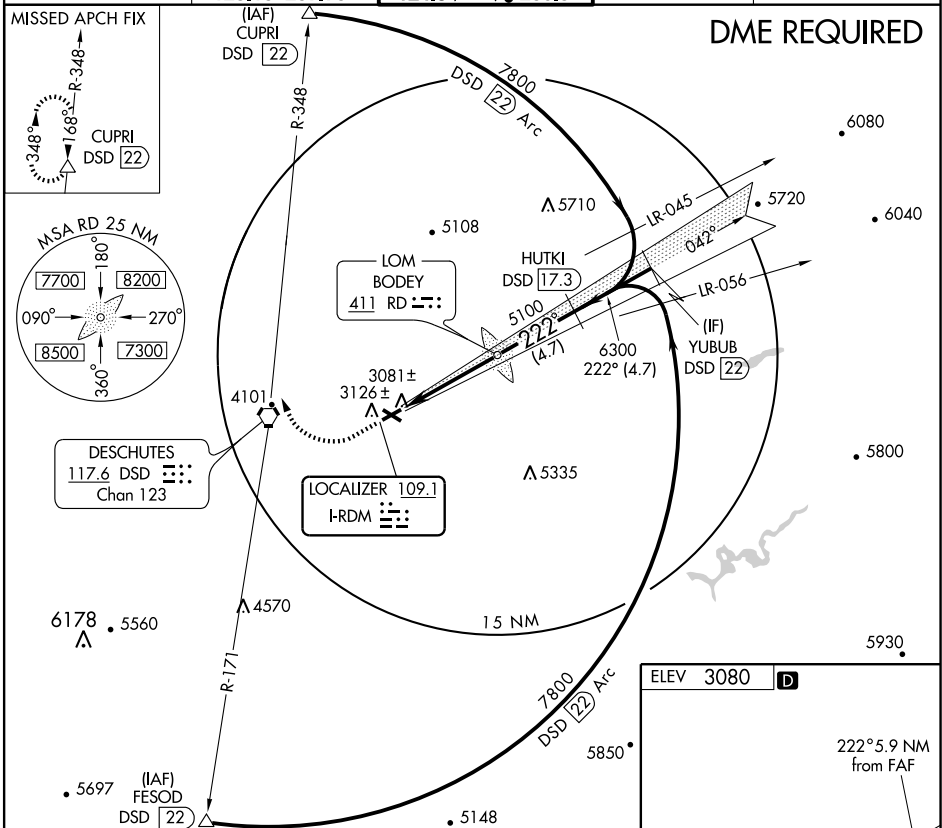
GND CON

121.8

UNICOM

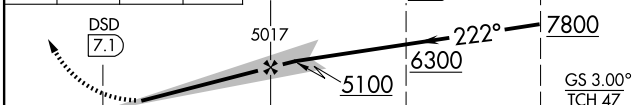
122.95

DME REQUIRED



3500	7000	DSD	CUPRI	VGSI and ILS glidepath not coincident.	Procedure
------	------	-----	-------	----------------------------------------	-----------

		R-348 117.6		LOM	HUTKI DSD 17.3	YUBUB DSD 22	Turn NA
-----------------------------------------------------------------------------------	------------------------------------------------------------------------------------	----------------	-------------------------------------------------------------------------------------	-----	-------------------	-----------------	------------



	5.9 NM		4.7 NM		4.7 NM		2.5 NM			
CATEGORY	A		B		C		D		E	
S-LS 22	3265-½ 200 (200-½)									
S-LOC 22	3340-½ 275 (300-½)						3340-¾ 275 (300-¾)			
CIRCLING	3520-1 440 (500-1)		3540-1 460 (500-1)		3540-1½ 460 (500-1½)		3780-2¼ 700 (700-2¼)		3780-2½ 700 (700-2½)	

ELEV	3080	D
------	------	---

D

222°5.9 NM

from FAF

1

1

22

TDZF

3065

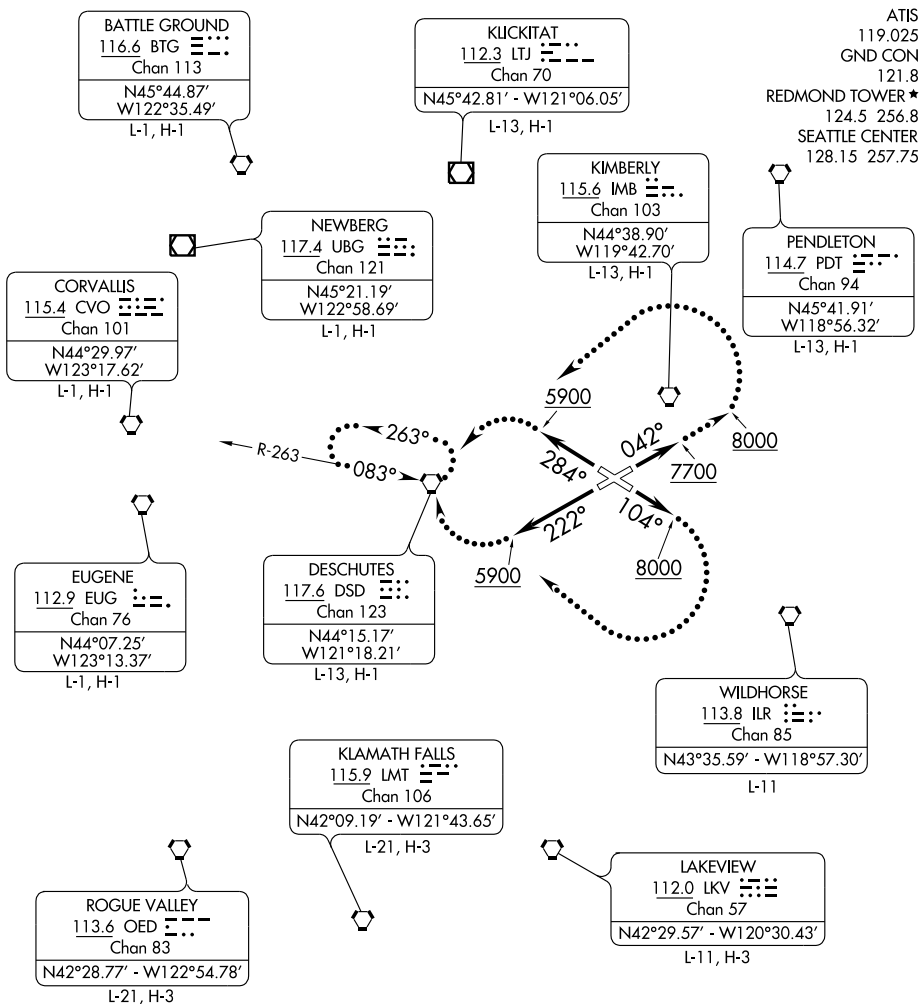
0	180
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22	1:58
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NW-1. 03 JUN 2010 to 01 JUL 2010

REDMOND ONE DEPARTURE

REDMOND, OREGON



NW-1, 03 JUN 2010 to 01 JUL 2010

TAKE-OFF OBSTACLE

Rwy 28: Numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL.
Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

TAKE-OFF MINIMUMS

Rwy 4: Standard with minimum obstacle climb of 371' per NM to 13000, ATC climb of 465' per NM to 7700.
Rwy 10: Standard with minimum climb of 406' per NM to 13000.
Rwy 22: Standard with minimum obstacle climb of 356' per NM to 13000, ATC climb of 406' per NM to 5900.
Rwy 28: Standard with minimum climb of 358' per NM to 13000.

NOTE: RADAR required.

NOTE: Chart not to scale.

(NARRATIVE ON THE FOLLOWING PAGE)

REDMOND ONE DEPARTURE

REDMOND, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climb heading 042° or ATC assigned heading to 7700 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 10: Climb heading 104° or ATC assigned heading to 8000 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 22: Climb heading 222° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 28: Climb heading 284° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

. . . . Maintain 14000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Center after reaching 6000, continue climb to assigned altitude and:

TAKE-OFF RUNWAY 4: Continue climb to 8000, then climbing left turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 10: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 22: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 28: Climbing left turn direct DSD VORTAC. . . .

. . . . Climb-in-hold at DSD VORTAC (hold W, LT, 083° inbound) to cross DSD VORTAC at or above the MEA before proceeding on course.

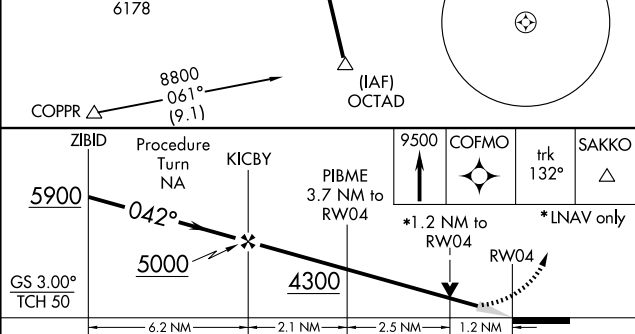
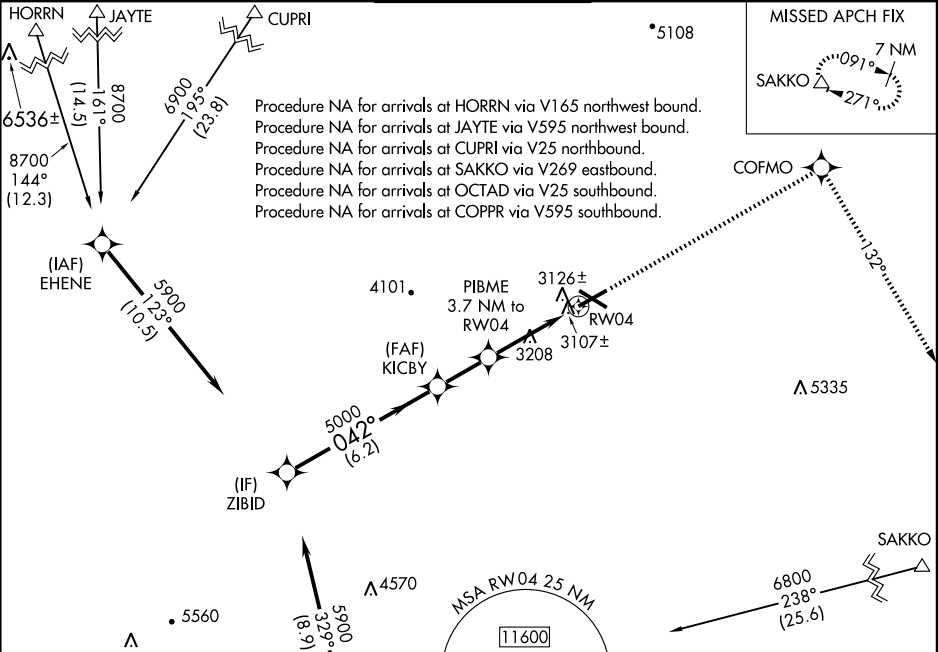
WAAS CH 70514 W04A	APP CRS 042°	Rwy Idg TDZE Apt Elev 7038 3075 3080
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RNAV (GPS) RWY 4
REDMOND/ROBERTS FIELD (RDM)

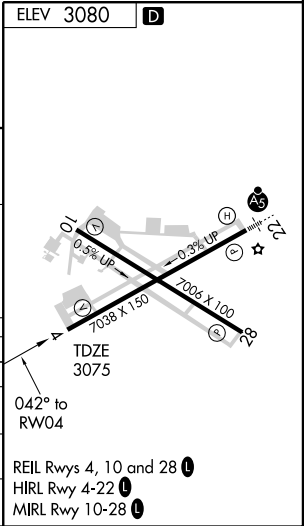
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP-0.3 NA. When local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9500 direct COFMO and via track 132° to SAKKO and hold, continue climb-in-hold to 9500.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		3325-3/4	250 (300-3/4)	
LNAV/VNAV DA		3367-1	292 (300-1)	
LNAV MDA	3520-1	445 (500-1)	3520-1 1/4 445 (500-1 1/4)	3520-1 1/2 445 (500-1 1/2)
CIRCLING	3520-1 440 (500-1)	3540-1 460 (500-1)	3540-1 1/2 460 (500-1 1/2)	3640-2 560 (600-1)



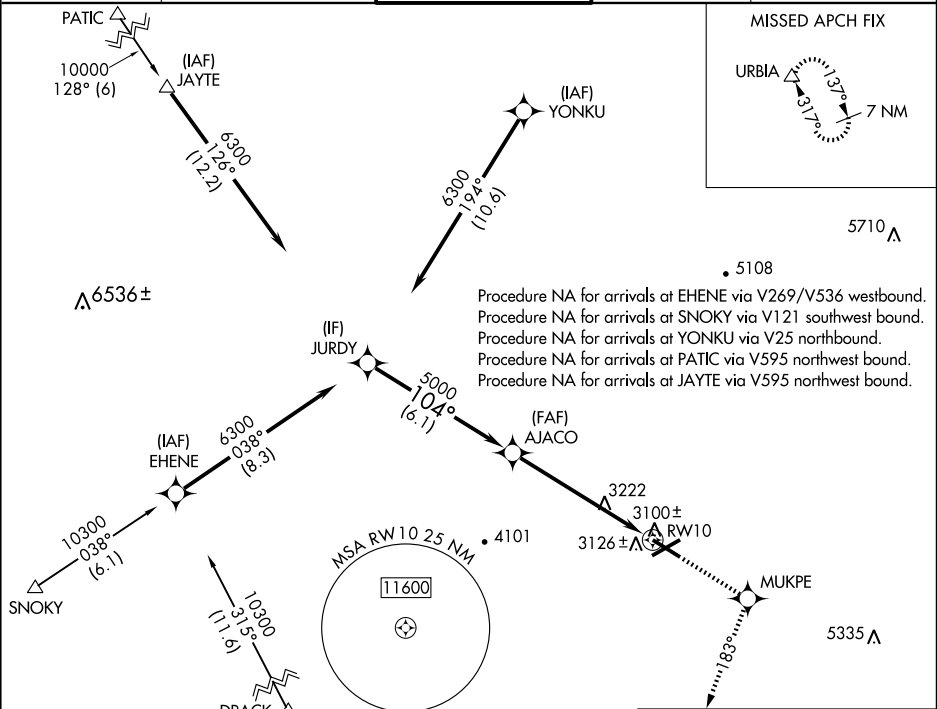
WAAS CH 53514 W10A	APP CRS 104°	Rwy Idg TDZE Apt Elev 7006 3067 3080
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RNAV (GPS) RWY 10
REDMOND/ROBERTS FIELD (RDM)

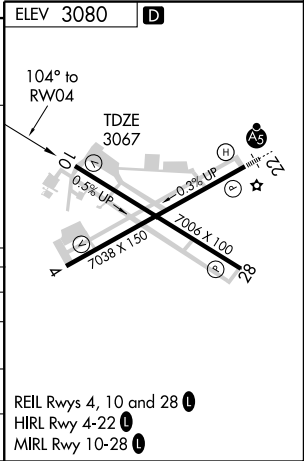
▼ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below
-21°C (-5°F) or above 43°C (109°F).
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 8500 direct MUKPE
and via track 183° to URBIA and hold, continue
climb-in-hold to 8500.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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Procedure Turn NA	JURDY	AJACO	8500	MUKPE	trk 183°	URBIA
	6300	104°	5000			
GS 3.00° TCH 50						
	6.1 NM		5.9 NM		RW10	
CATEGORY	A	B	C	D		
LPV DA	3317-1		250 (300-1)			
LNAV/ VNAV DA	3370-1		303 (300-1)			
LNAV MDA	3480-1 413 (400-1)		3480-1¼ 413 (400-1¼)			
CIRCLING	3480-1 400 (400-1)	3540-1 460 (500-1)	3540-1½ 460 (500-1½)	3640-2 560 (600-1)		



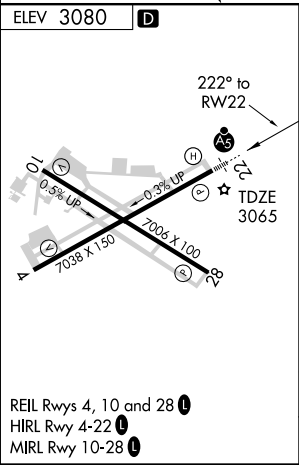
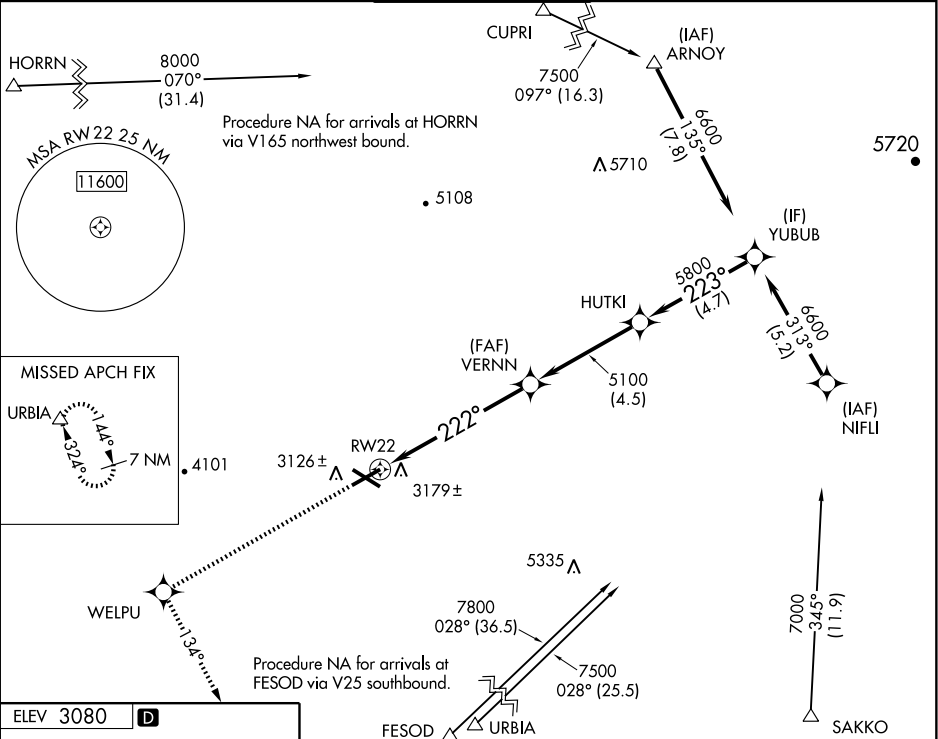
RNAV (GPS) RWY 22
REDMOND/ROBERTS FIELD (RDM)

WAAS CH 82514 W22A	APP CRS 222°	Rwy Idg TDZE Apt Elev	7038 3065 3080
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For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP: 0.3 NA. When local altimeter setting not received, procedure NA. For inoperative MALSR, increase LNAV Cat D visibility to 1 ¼ mile.

MALSR MISSED APPROACH: Climb to 7600 direct WELPU and via track 134° to URBIA and hold, continue climb-in-hold to 7600.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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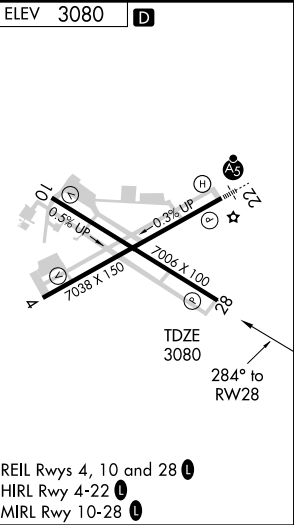
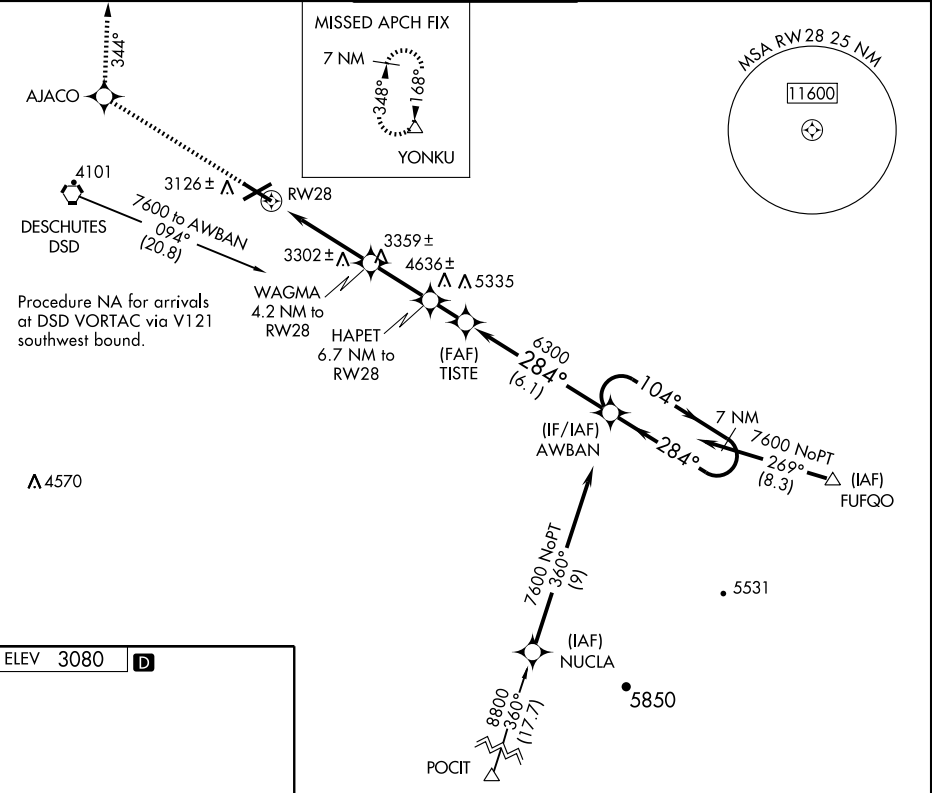
ELEV 3080	D	7600	WELPU	trk 134°	URBIA	VGSI and RNAV glidepath not coincident.	HUTKI	YUBUB	Procedure Turn NA
* LNAV only									
RW22 222° to RW22 222°									
1.1 NM 5.1 NM 4.5 NM 4.7 NM									
CATEGORY	A	B	C	D					
LPV DA	3265-1/2 200 (200-1/2)								
LNAV/VNAV DA	3449-1 384 (400-1)								
LNAV MDA	3440-1/2 375 (400-1/2)				3440-1 375 (400-1)				
CIRCLING	3480-1 400 (400-1)	3540-1 460 (500-1)	3540-1 1/2 460 (500-1 1/2)	3640-2 560 (600-1)					

APP CRS	Rwy Idg	7006
284°	TDZE	3080
	Apt Elev	3080

RNAV (GPS) Y RWY 28

REDMOND/ROBERTS FIELD (RDM)

▼ DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA.		MISSED APPROACH: Climb to 7000 direct AJACO and via track 344° to YONKU and hold, continue climb-in-hold to 7000.		
ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 256.8	GND CON 121.8	UNICOM 122.95



7000		AJACO	trk 344°	YONKU	HAPET 6.7 NM to RW28	TISTE	AWBAN	7 NM Holding Pattern
		1.4 NM to RW28	WAGMA 4.2 NM to RW28	3.64° TCH 50	6300	104° → 7600	VGSI and descent angles not coincident.	
		1.4 NM	2.8 NM	2.5 NM	1.5 NM	6.1 NM		
CATEGORY	A		B		C		D	
LNAV MDA	3560-1		480 (500-1)		3560-1¼ 480 (500-1¼)		NA	
CIRCLING	3560-1		480 (500-1)		3560-1½ 480 (500-1½)		NA	

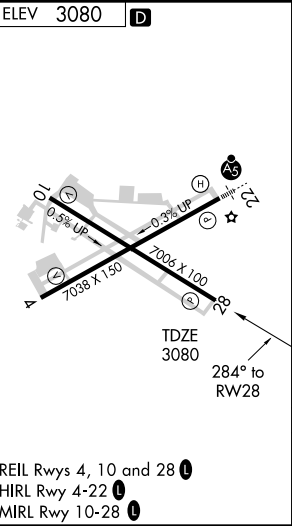
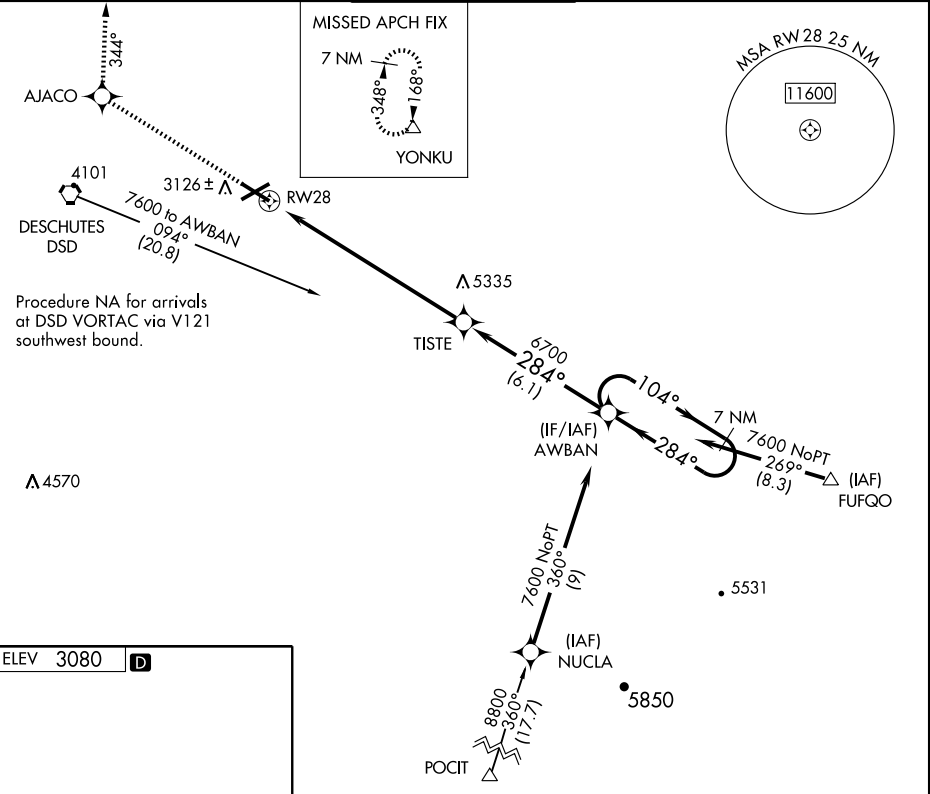
WAAS CH 90214 W28A	APP CRS 284°	Rwy Idg TDZE Apt Elev	7006 3080 3080
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RNAV (GPS) Z RWY 28

REDMOND/ROBERTS FIELD (RDM)

▼ DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA. Circling requires descent on glidepath to MDA.	MISSED APPROACH: Climb to 7000 direct AJACO and via track 344° to YONKU and hold, continue climb-in-hold to 7000.
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ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 256.8	GND CON 121.8	UNICOM 122.95
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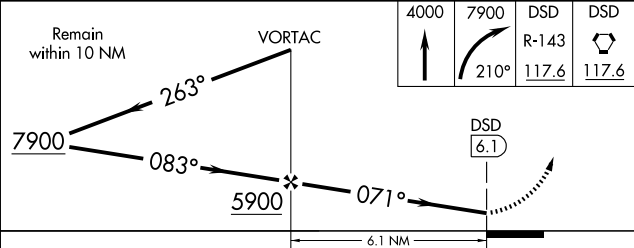
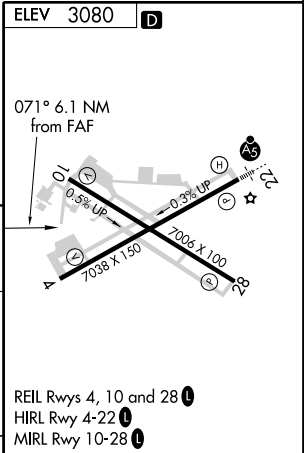
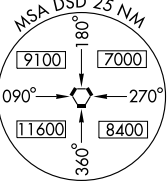
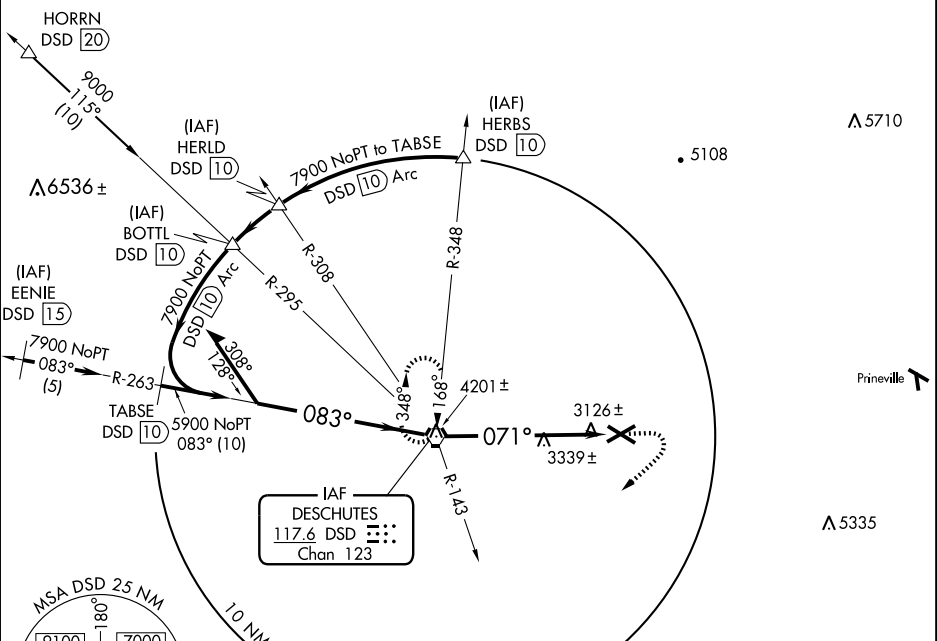


7000	AJACO	344° trk	YONKU	TISTE	AWBAN	7 NM Holding Pattern
VGSI and RNAV glidepath not coincident.						
RWY 28		6700		104° → 7600		GS 4.03° TCH 50
8.2 NM		6.1 NM				
CATEGORY	A	B	C	D		
LPV DA	3366- ³ / ₄ 286 (300- ³ / ₄)	3366-1 286 (300-1)	NA			
CIRCLING	3480-1 400 (400-1)	3540-1 460 (500-1)	NA			

VORTAC DSD 117.6 Chan 123	APP CRS 071°	Rwy Idg TDZE Apt Elev 3080	N/A N/A 3080
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MISSED APPROACH: Climb to 4000 then climbing right turn to 7900 via heading 210° and DSD R-143 to DSD VORTAC and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D	FAF to MAP 6.1 NM					
CIRCLING	3600-1	520 (600-1)	3600-1½ 520 (600-1½)	3640-2 560 (600-2)	Knots	60	90	120	150	180
					Min:Sec	6:06	4:04	3:03	2:26	2:02

VORTAC DSD 117.6 Chan 123	APP CRS 249°	Rwy Idg TDZE Apt Elev 7038 3065 3080
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VOR/DME RWY 22

REDMOND/ROBERTS FIELD (RDM)



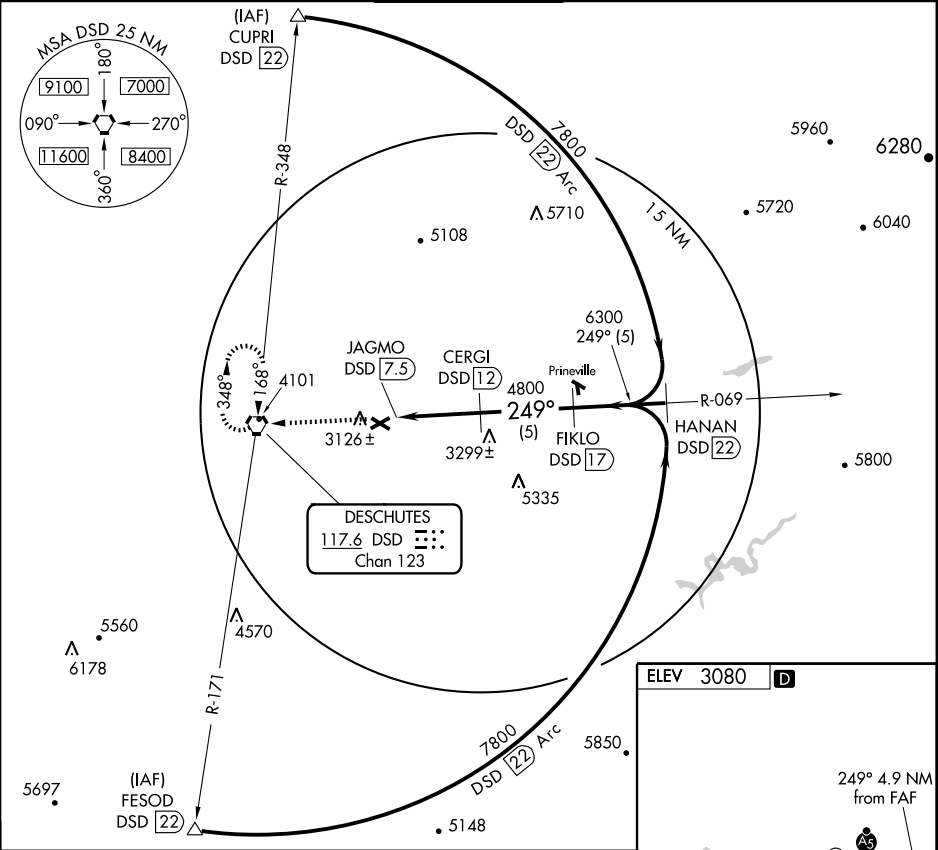
Inoperative table does not apply.



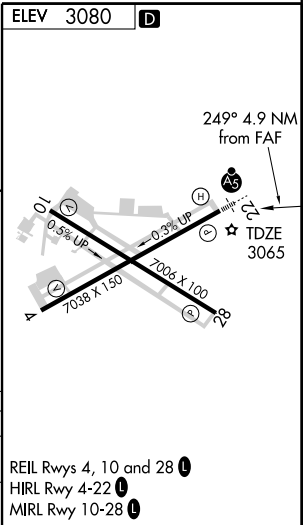
MALSR

MISSED APPROACH: Climb to 7000 direct DSD VORTAC and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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7000	DSD 117.6	CERGI DSD 12	FIKLO DSD 17	HANAN DSD 22	
JAGMO DSD 7.5	DSD 9.7	7800	6300	Procedure Turn NA	
0.4	2.2 NM	2.3 NM	5 NM	5 NM	
CATEGORY	A	B	C	D	E
S-22	4000-1¼ 935 (1000-1¼)	4000-2¾ 935 (1000-2¾)	4000-3 935 (1000-3)		
CIRCLING	4000-1¼ 920 (1000-1¼)	4000-2¾ 920 (1000-2¾)	4000-3 920 (1000-3)		



APP CRS	Rwy Idg	N/A
342°	TDZE	N/A
	Apt Elev	529

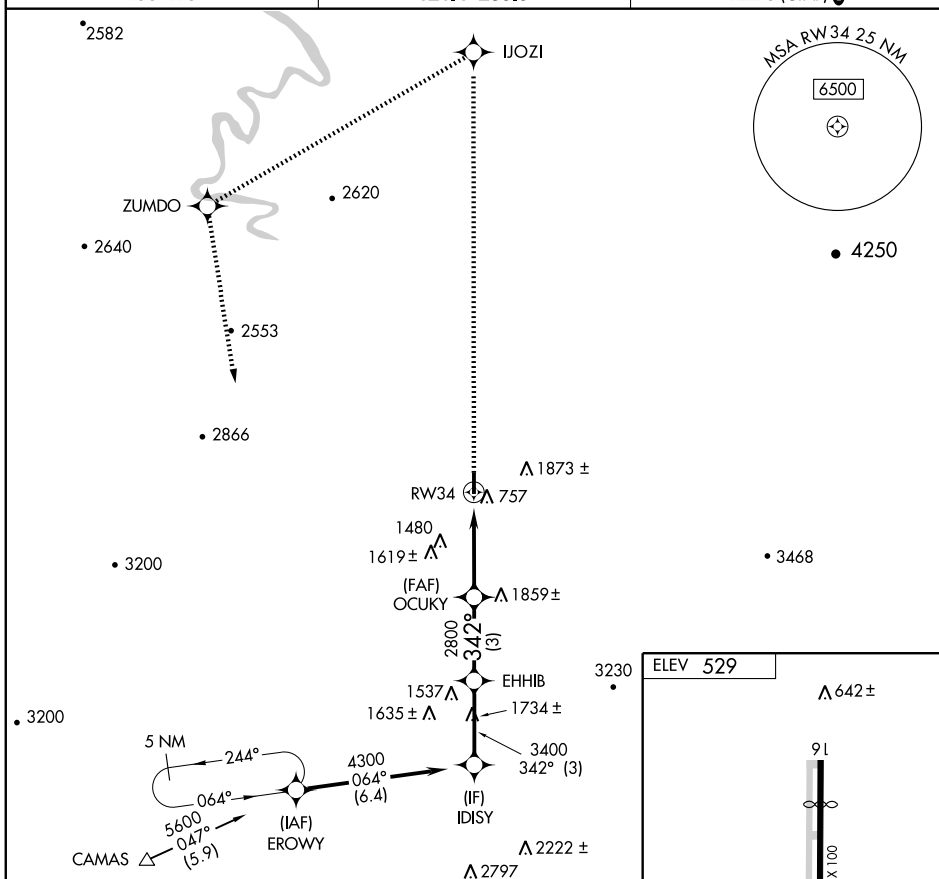
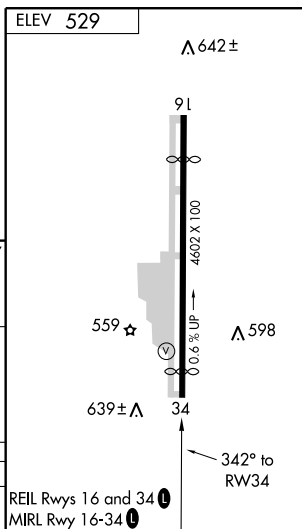
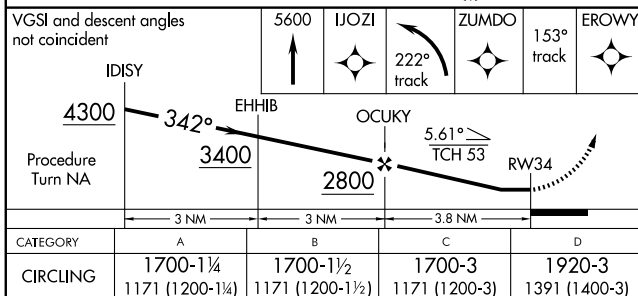
RNAV (GPS)-B
ROSEBURG RGNL (RBG)

T Circling NA east of Rwy 16-34.
A If local altimeter setting not received, use North Bend altimeter setting and increase all MDAs 520 feet.
DME/DME RNP -0.3 NA.

MISSED APPROACH: Climb to 5600 direct IJOZI and left turn via 222° track to ZUMDO and via 153° track to EROWY and hold.

ASOS
135.475

SEATTLE CENTER
121.4 239.0

UNICOM
122.8 (CTAF) **L**VGSI and descent angles
not coincident

VOR/DME RBG <u>108.2</u> Chgn 19	APP CRS 337°	Rwy Idg TDZE Apt Elev	N/A N/A 525
------------------------------------------------------	------------------------	-----------------------------	----------------------------------------

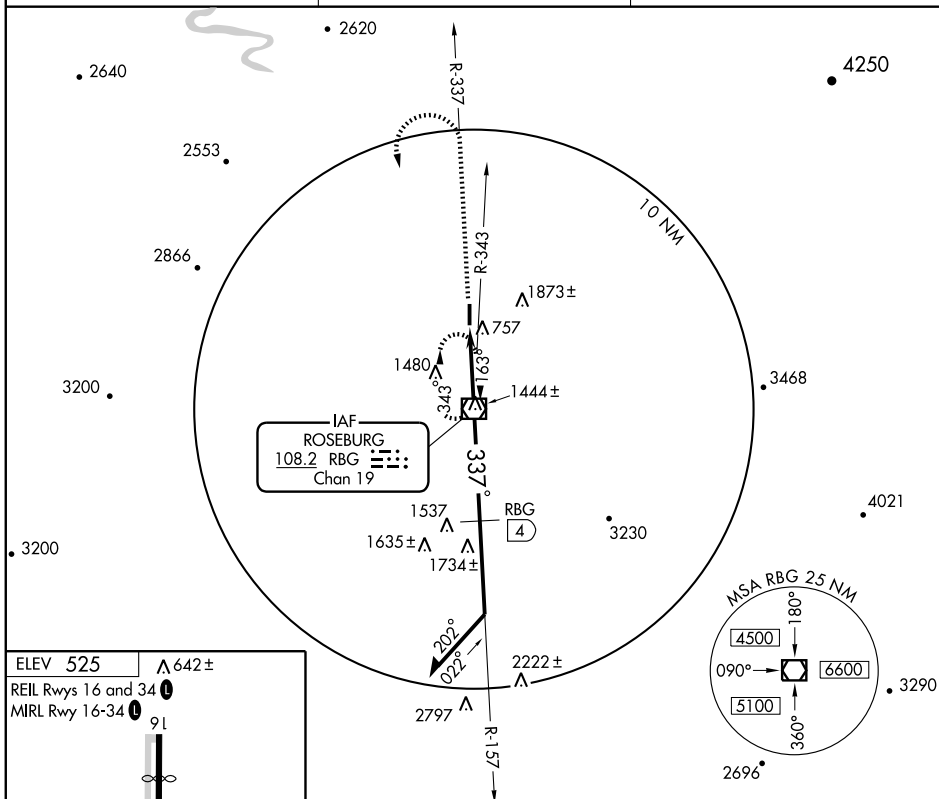
VOR-A
ROSEBURG RGNL(RBG)

T
A NA Circling not authorized east of Rwy 16-34.

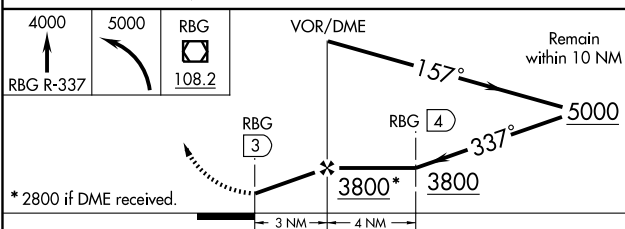
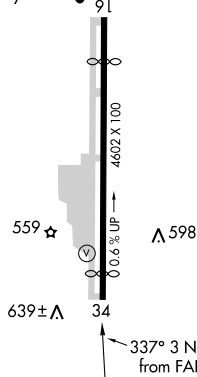
MISSED APPROACH: Climb to 4000 via RBG R-337 within 15 NM; then climbing left turn to 5000 direct RBG VOR/DME and hold.

ASOS
135.475

SEATTLE CENTER
121.4 239.0

UNICOM
122.8 (CTAF) **L**

ELEV 525	Δ 642±
REIL Rwys 16 and 34	L
MIRL Rwy 16-34	L



<div><div>337° 3 NM from FAF</div><div>FAF to MAP 3 NM</div></div>		CATEGORY	A		B		C		D		
		CIRCLING	2600-1¼ 2075 (2100-1¼)		2600-1½ 2075 (2100-1½)		2600-3 2075 (2100-3)				
		DME MINIMUMS									
Knots	60	90	120	150	180	1740-1¼		1740-1½		1740-3	
Min:Sec	3:00	2:00	1:30	1:12	1:00	1215 (1300-1¼)		1215 (1300-1½)		1215 (1300-3)	
		CIRCLING									1920-3 1395 (1400-3)

AIRPORT DIAGRAM

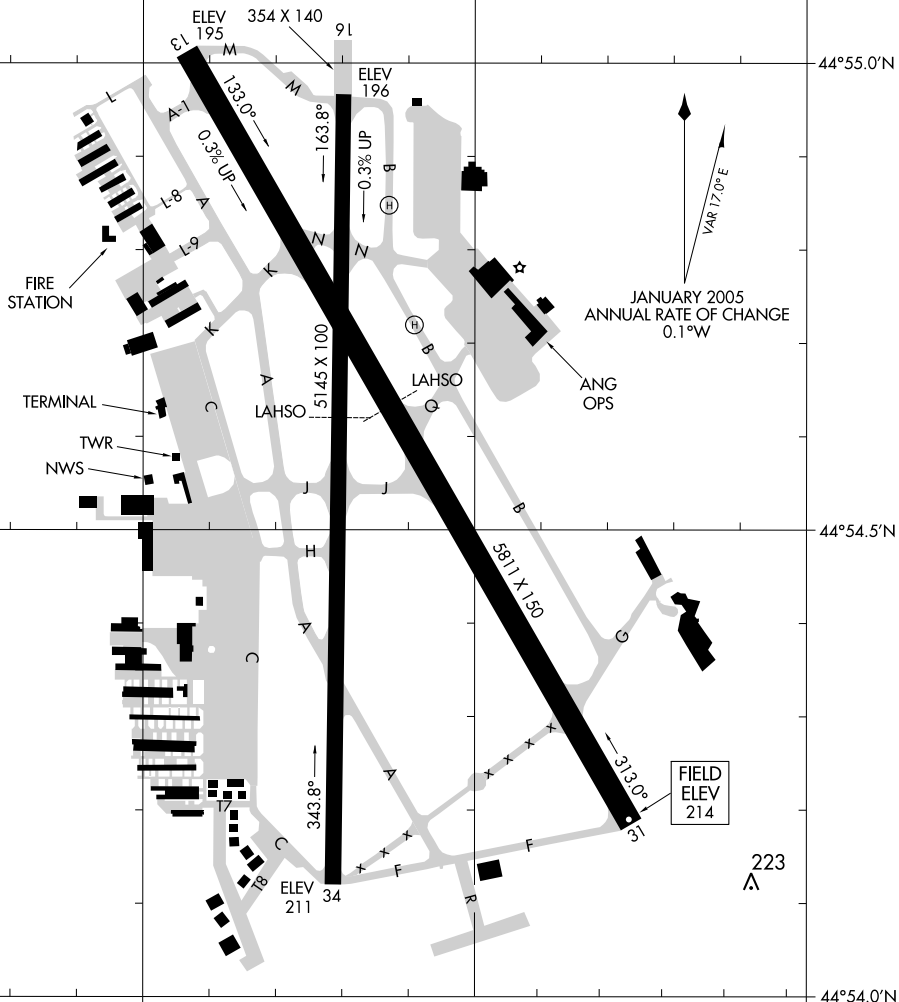
AL-361 (FAA)

SALEM/MCNARY FIELD (SLE)

SALEM, OREGON

ATIS
124.55
SALEM TOWER ★
119.1 257.2
GND CON
121.9

RWY 13-31
S100, D122, ST154, DT185
RWY 16-34
S30, D60, DT100



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

123°00.5'W

123°00.0'W

122°59.5'W

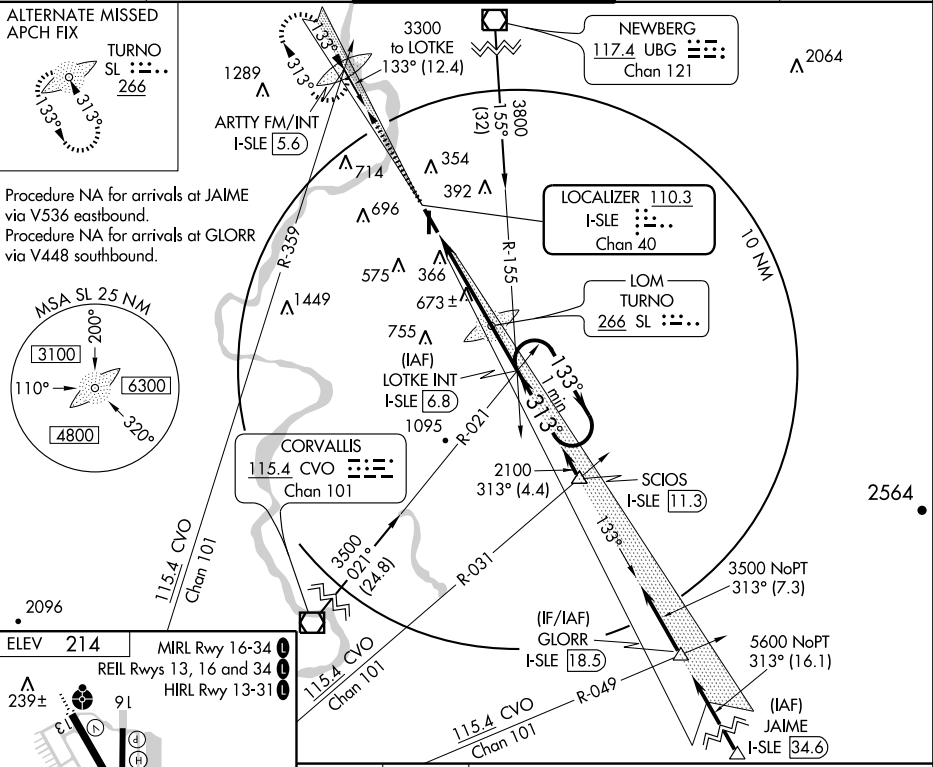
LOC/DME I-SLE	APP CRS	Rwy Idg	5811
110.3	313°	TDZE	214
Chan 40		Apt Elev	214

***RVR 1800** authorized with the use of FD or AP or HUD to DA.
When local altimeter setting not received, use Mc Minnville
altimeter setting and increase DA 49 feet, and all MDA 60 feet;
increase circling Cat D visibility to 2 3/4 miles.
VDP NA when using Mc Minnville altimeter setting.

MALSR

MISSED APPROACH: Climb to 4000
via I-SLE NW course to ARTTY
FM/INT/I-SLE 5.6 DME and hold,
continue climb-in-hold to 4000.

ATIS	SEATTLE CENTER	SALEM TOWER *	GND CON	UNICOM
124.55	125.8 291.7	119.1(CTAF) 257.2	121.9	122.95



ELEV 214

MIRL Rwy 16-34

REIL Rwy 13, 16 and 34

HIRL Rwy 13-31

TDZE 214

313° 5.7 NM from FAF

FAF to MAP 5.7 NM

Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

4000	ARTTY FM/INT I-SLE 5.6	LOTKE INT I-SLE 6.8	One Minute Holding Pattern	
I-SLE NW course	I-SLE 3.3	2100	133°	2400
I-SLE 1.1		2100	313°	
2.2 NM	3.5 NM			GS 3.00° TCH 42
CATEGORY	A	B	C	D
S-ILS 31	*414/24 200 (200-1/2)			
S-LOC 31	960/24 746 (800-1/2)	960/40 746 (800-3/4)	960-1 3/4 746 (800-1 3/4)	960-2 746 (800-2)
CIRCLING	960-1 746 (800-1)	960-1 1/4 746 (800-1 1/4)	960-2 1/4 746 (800-2 1/4)	1000-2 1/2 786 (800-2 1/2)

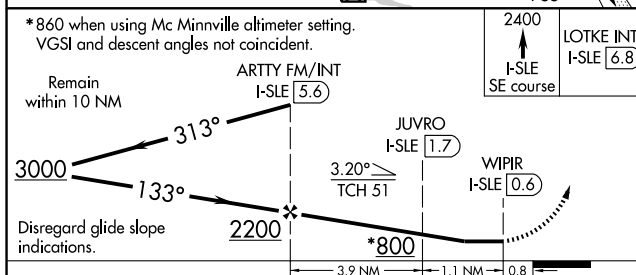
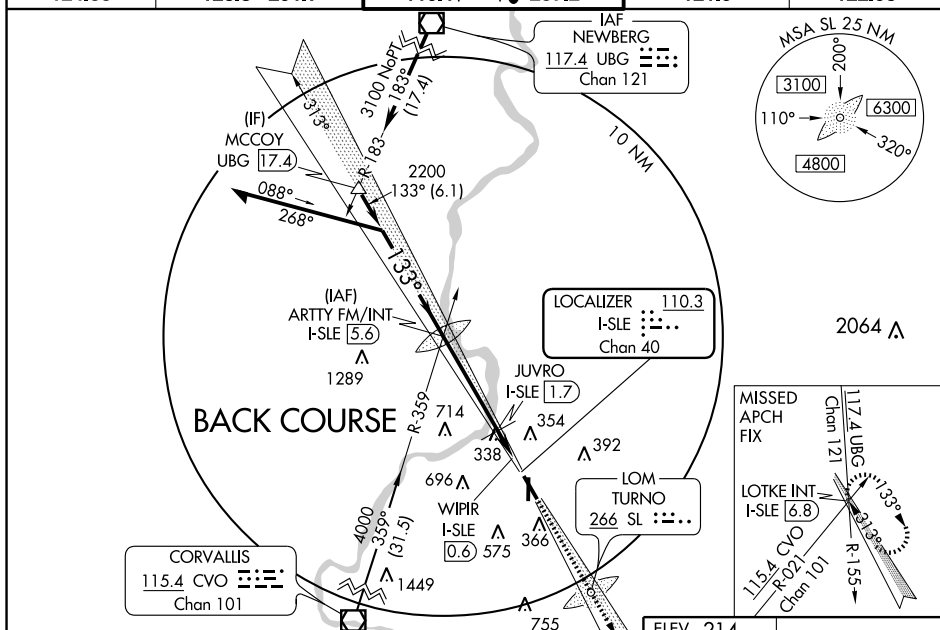
NW-1, 03 JUN 2010 to 01 JUL 2010

LOC/DME I-SLE	APP CRS	Rwy Idg	5811
110.3	133°	TDZE	204
Chan 40		Apt Elev	214

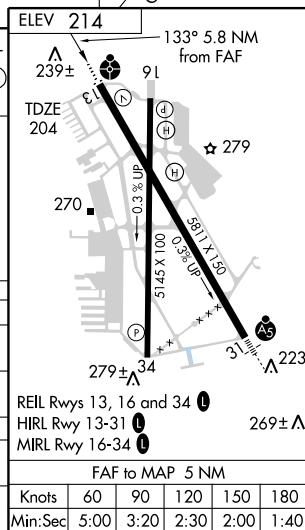
LOC BC RWY 13

SALEM / MCNARY FIELD (SLE)

<div><div><div><div></div><div></div><div></div></div><div>NA</div></div></div> <div>Inoperative table does not apply to S-13 Cat C or when using McMinville altimeter setting to S-13 Cat C and JUVRO fix minimums Cat C. ARTTY INT not authorized for final approach fix. When local altimeter setting not received, use McMinville altimeter setting and increase all MDA 60 feet and Cat C and D visibility ¼ mile, for JUVRO fix minimums, increase S-13 Cat C visibility ½ mile, Cat D visibility ¼ mile.</div>	<div><div><div><div></div><div></div><div></div></div><div>ODALS</div></div><div><div><div></div><div></div><div></div></div><div></div></div></div>	<div>MISSED APPROACH: Climb to 2400 via I-SLE SE course to LOTKE INT/I-SLE 6.8 DME and hold, continue climb-in-hold to 2400.</div>		
<div><div>ATIS</div><div>124.55</div></div>	<div><div>SEATTLE CENTER</div><div>125.8 291.7</div></div>	<div><div>SALEM TOWER ★</div><div>119.1 (CTAF) 0 257.2</div></div>	<div><div>GND CON</div><div>121.9</div></div>	<div><div>UNICOM</div><div>122.95</div></div>



CATEGORY	A	B	C	D
S-13	800-¾	596 (600-¾)	800-1½	800-1¾
			596 (600-1½)	596 (600-1¾)
CIRCLING	900-1	940-1	940-2	1000-2½
	686 (700-1)	726 (800-1)	726 (800-2)	786 (800-2½)
JUVRO FIX MINIMUMS				
S-13	600-¾	396 (400-¾)		600-1¼
				396 (400-1¼)
CIRCLING	900-1	940-1	940-2	1000-2½
	686 (700-1)	726 (800-1)	726 (800-2)	786 (800-2½)



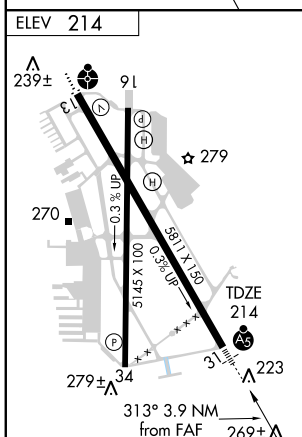
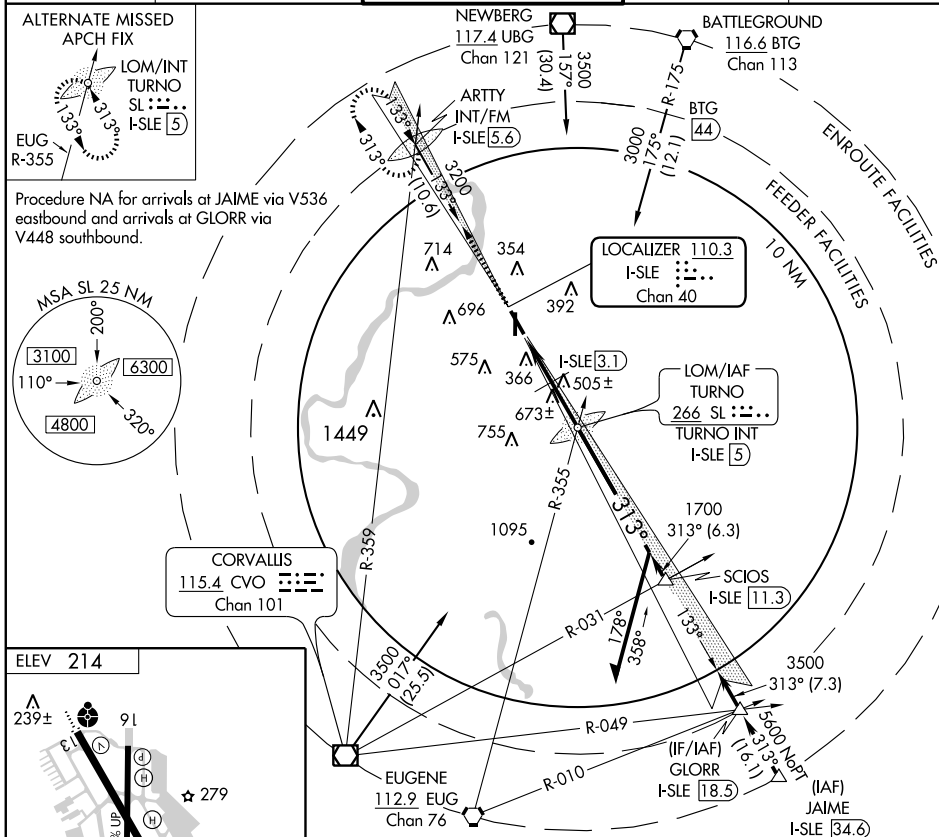
LOC/DME I-SLE 110.3 Chan 40	APP CRS 313°	Rwy Idg 5811 TDZE 214 Apt Elev 214
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LOC/DME RWY 31

SALEM / MCNARY FIELD (SLE)

 	ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER ★ 119.1 (CTAF) 257.2	GND CON 121.9	UNICOM 122.95
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MISSED APPROACH: Climb to 4000 via I-SLE LOC northwest course to ARTTY FM/I-SLE 5.6 DME and hold, continue climb-in-hold to 4000.



REIL Rwy 13, 16 and 34
HIRL Rwy 13-31
MIRL Rwy 16-34

	ARTTY INT I-SLE 5.6		TURNO LOM/INT I-SLE 5		Remain within 10 NM	
	I-SLE 1.1		I-SLE 2.5		I-SLE 3.1	
	1.4 NM		0.6		1.9 NM	
CATEGORY	A		B		C	D
S-31	780/24		566 (600-1/2)		780/50	780/60
					566 (600-1)	566 (600-1 1/4)
CIRCLING	900-1		940-1		940-2	1000-2 1/2
	686 (700-1)		726 (800-1)		726 (800-2)	786 (800-2 1/2)

WAAS CH 86202 W31A	APP CRS 313°	Rwy Idg TDZE Apt Elev	5811 214 214
----------------------------------------	------------------------	-----------------------------	-----------------------------------------

RNAV (GPS) RWY 31

SALEM / MCNARY FIELD (SLE)

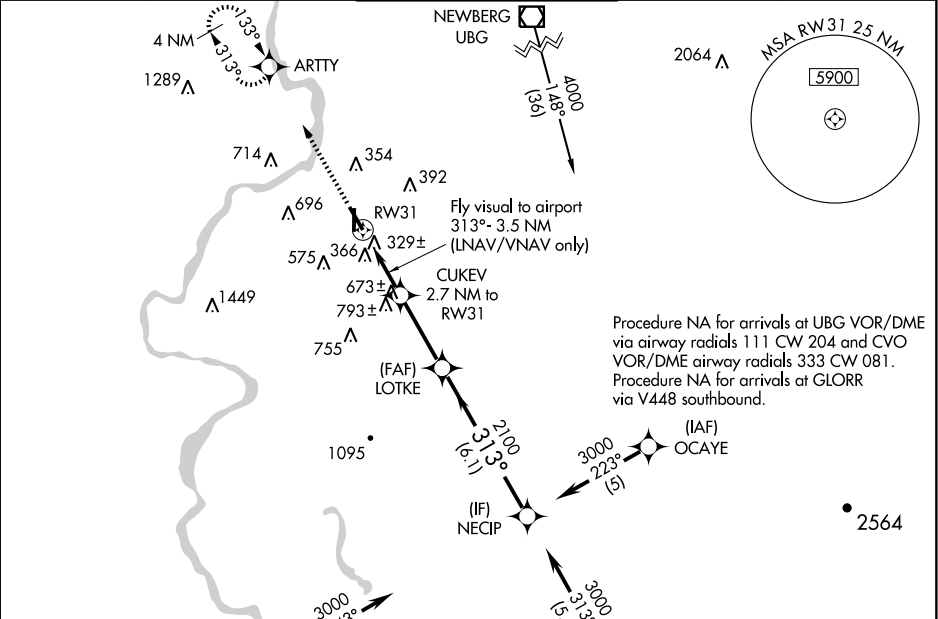
⚠ Inoperative table does not apply to LNAV/VNAV. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use McMinnville altimeter setting and increase all DA 49 feet; increase all MDA 60 feet and LNAV and circling visibility Cats B/C/D ¼ mile. Baro-VNAV and VDP NA when using McMinnville altimeter setting.

MALSR

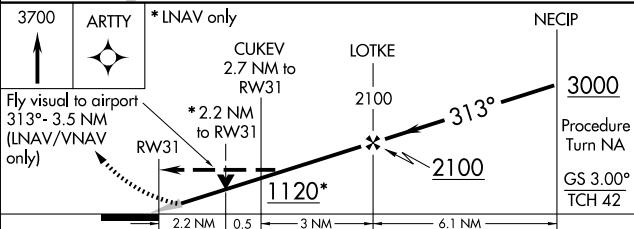


MISSED APPROACH:
Climb to 3700 direct ARTTY and hold, continue climb-in-hold to 3700.

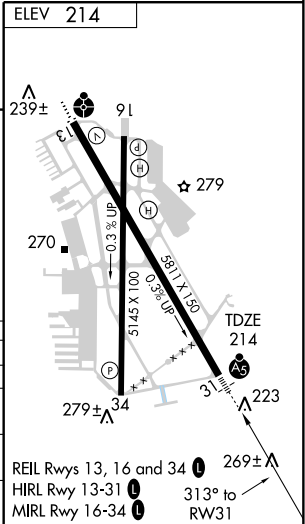
ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER ★ 119.1(CTAF) 0 257.2	GND CON 121.9	UNICOM 122.95
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Procedure NA for arrivals at UBG VOR/DME via airway radials 111 CW 204 and CVO VOR/DME airway radials 333 CW 081.
Procedure NA for arrivals at GLORR via V448 southbound.



CATEGORY	A	B	C	D
LPV DA	414/24 200 (200-½)			
LNAV/VNAV DA	1334-2	1120 (1200-2)	1334-3	1120 (1200-3)
LNAV MDA	940/24	726 (800-½)	940-1½ 726 (800-1½)	940-1¾ 726 (800-1¾)
CIRCLING	940-1	726 (800-1)	940-2 726 (800-2)	1000-2 ½ 786 (800-2½)



SALEM TWO DEPARTURE

SL-361 (FAA)

SALEM / MCNARY (SLE)
SALEM, OREGON

GND CON

121.9

SALEM TOWER ★

119.1 (CTAF) 257.2

SEATTLE CENTER

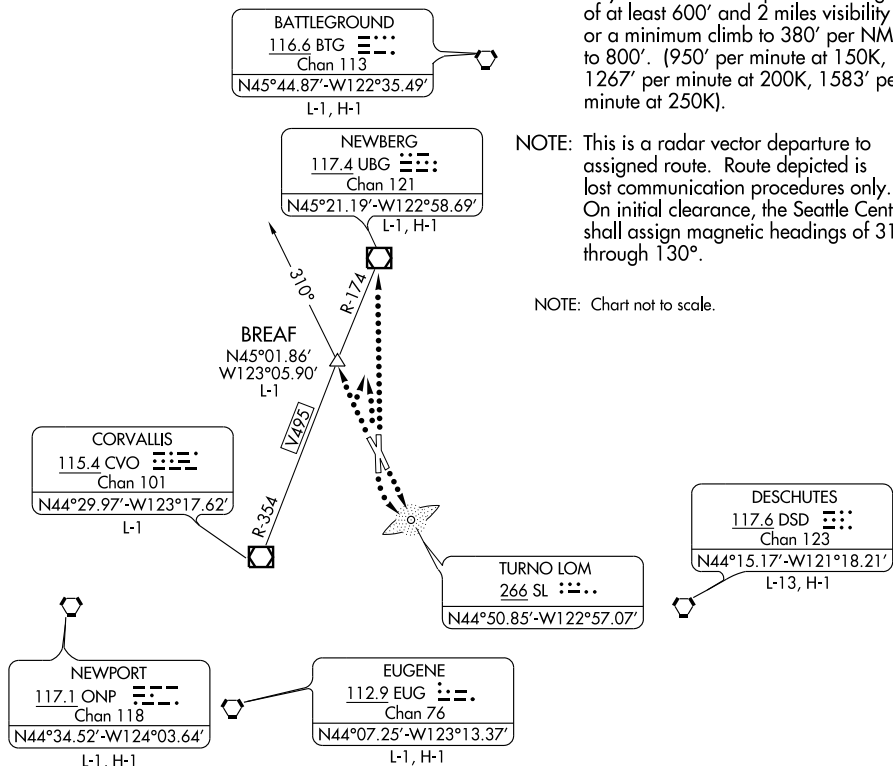
125.8 291.7

NOTE: Rwy 13-This SID requires a ceiling of at least 600' and 2 miles visibility, or a minimum climb of 240' per NM to 800'. (600' per minute at 150K, 800' per minute at 200K, 1000' per minute at 250K).

NOTE: Rwy 16 - This SID requires a ceiling of at least 600' and 2 miles visibility or a minimum climb to 380' per NM to 800'. (950' per minute at 150K, 1267' per minute at 200K, 1583' per minute at 250K).

NOTE: This is a radar vector departure to assigned route. Route depicted is lost communication procedures only. On initial clearance, the Seattle Center shall assign magnetic headings of 310° through 130°.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

Climb via specified turn and heading, contact Seattle Center for vectors to assigned route.

LOST COMMUNICATIONS: If not in contact with Seattle Center after reaching 2000', continue climb to assigned altitude.

Take-off runways 13 and 16: (Rwy 16 turn left) proceed direct to SL LOM thence via (assigned route).

Take-off runways 31 and 34: (Rwy 31 right turn) proceed direct to UBG VOR/DME thence via (assigned route).

Helicopter only-runways 31 and 34: (Rwy 34 turn left) intercept and proceed outbound on the SL LOM 310° bearing to BREAIF INT, thence via (assigned route).

LOC/DME I-FKO 111.1 Chan 48	APP CRS 149°	Rwy Idg 5100 TDZE 55 Apt Elev 55
-------------------------------------------------	------------------------	-------------------------------------------------------------

LOC/DME RWY 15
SCAPPOOSE INDUSTRIAL AIRPARK (SPB)

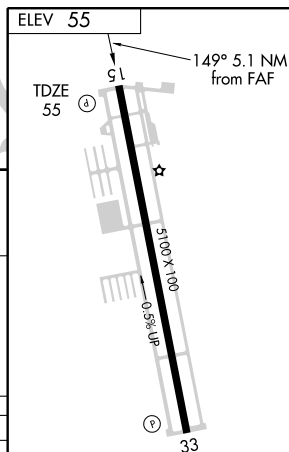
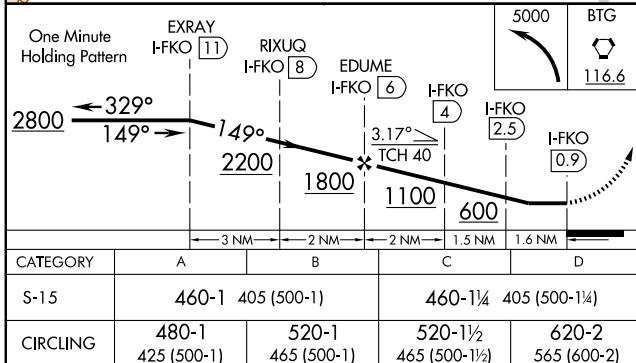
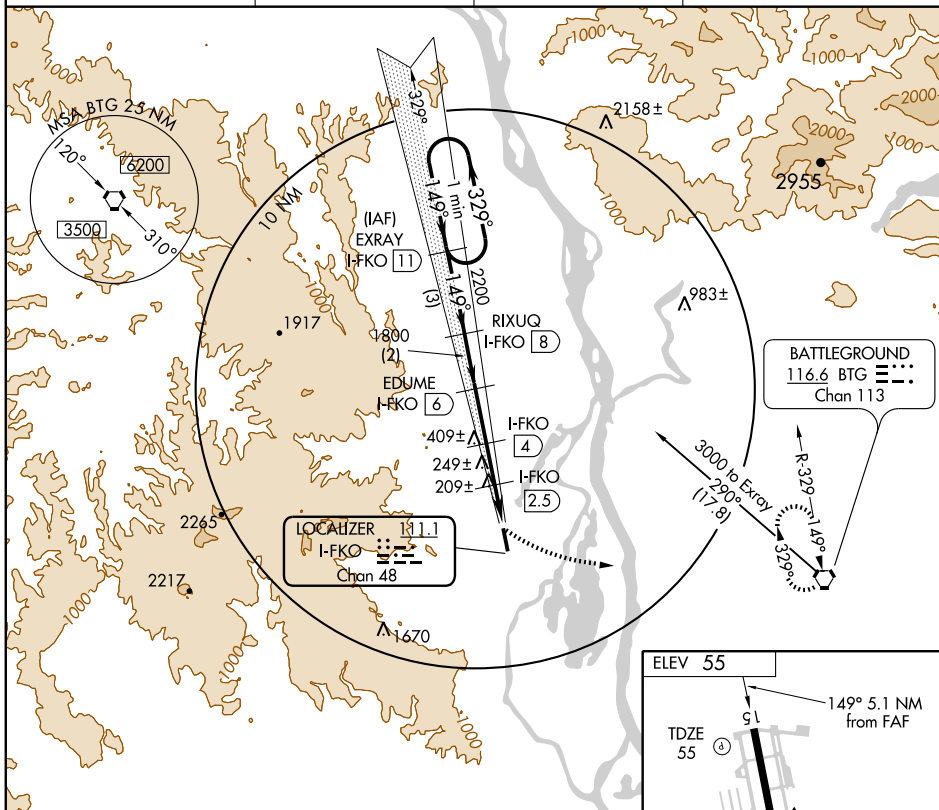
T Circling not authorized west of Rwy 15-33.

MISSED APPROACH: Climbing left turn to 5000 direct BTG VORTAC and hold.

ASOS
135,875

PORTLAND APP CON
124.35 299.2

CLNC DE
121,65

UNICOM
122.8 (CTAF)

REIL Rwy 15
MIRL Rwy 15-33

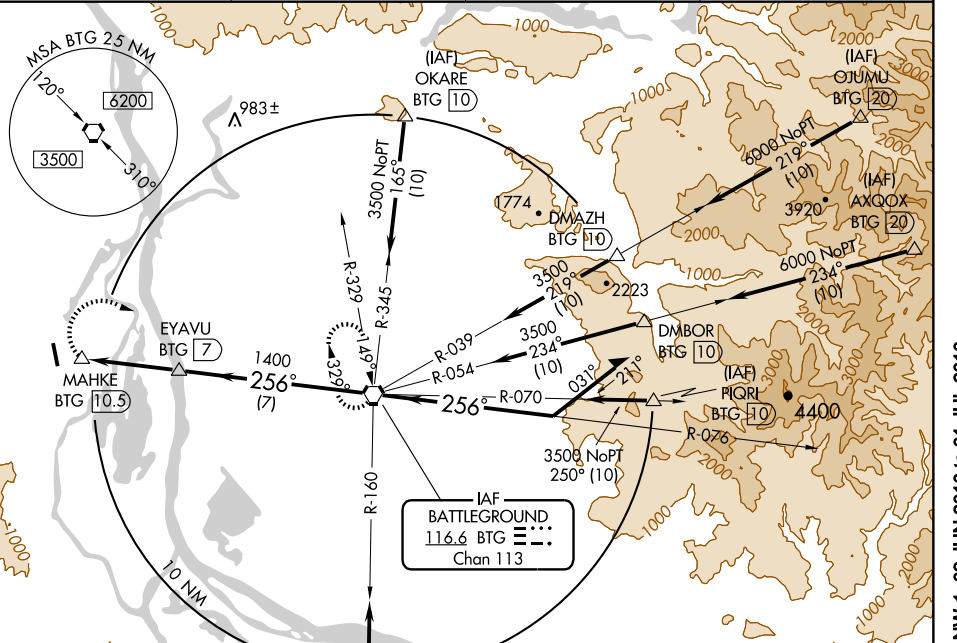
VORTAC BTG	APP CRS	Rwy Idg TDZE	N/A
116.6	256°		N/A
Chan 113		Apt Elev	55

▼

▲

MISSED APPROACH: Climbing right turn to 4200 direct BTG VORTAC and hold.

ASOS 135.875	PORTLAND APP CON 124.35 299.2	CLNC DEL 121.65	UNICOM 122.8 (CTAF)
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ELEV 55

4200

BTG

116.6

MAHKE BTG 10.5

EYAVU BTG 7

VORTAC

Remain within 10 NM

0.8

3.5 NM

7 NM

076°

256°

5600

3500

1400

CATEGORY	A	B	C	D
CIRCLING	680-1 625 (700-1)	940-1¼ 885 (900-1¼)	1000-2¾ 945 (1000-2¾)	1260-3 1205 (1300-3)

REIL Rwy 15

MIRL Rwy 15-33

NW-1. 03 JUN 2010 to 01 JUL 2010

APP CRS
178°

Rwy Idg
4467

TDZE
4162

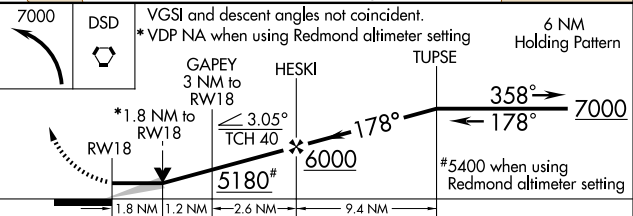
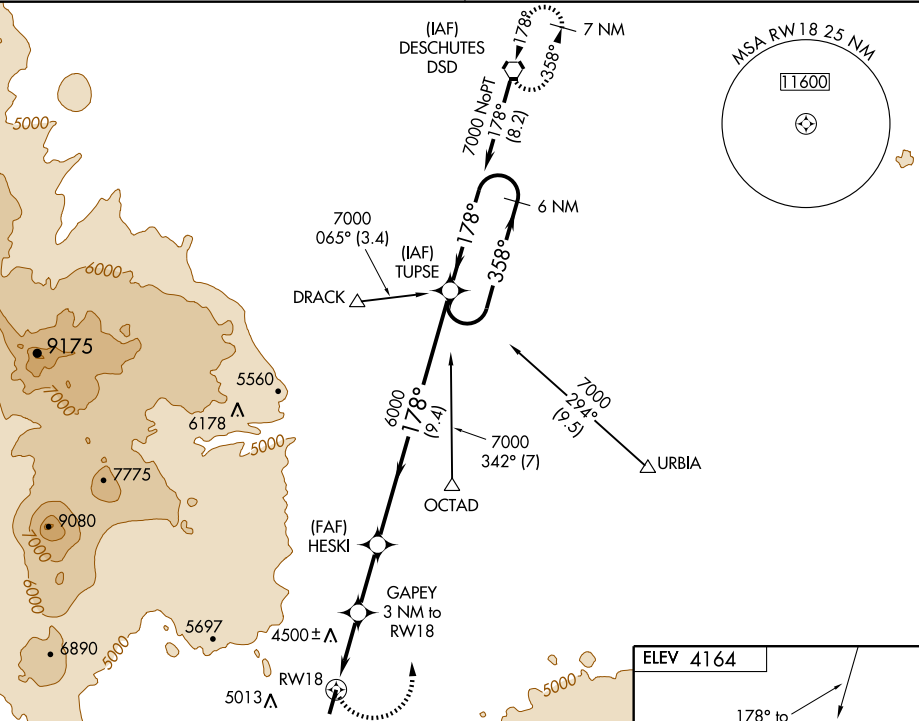
Apt Elev
4164

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling NA at night to Rwy 36.
Obtain local altimeter setting on CTAF; when not received, use Redmond altimeter setting.

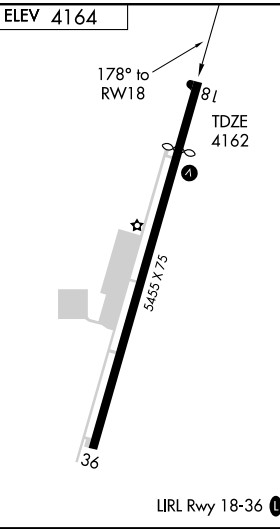
MISSED APPROACH: Climbing left turn to 7000 direct DSD VORTAC and hold.

SEATTLE CENTER
128.15 257.75

UNICOM
122.8 (CTAF) 1



CATEGORY	A	B	C	D
RNAV MDA	4760-1	598 (600-1)	4760-1½ 598 (600-1½)	4960-2½ 798 (800-2½)
CIRCLING	4920-1 756 (800-1)	4920-1¼ 756 (800-1¼)	5040-2½ 876 (900-2½)	5380-3 1216 (1300-3)
REDMOND ALTIMETER SETTING MINIMUMS				
RNAV MDA	4980-1 818 (900-1)	4980-1¼ 818 (900-1¼)	4980-2½ 818 (900-2½)	4980-2¾ 818 (900-2¾)
CIRCLING	5140-1¼ 976 (1000-1¼)	5140-1½ 976 (1000-1½)	5260-3 1096 (1100-3)	5580-3 1366 (1400-3)



NW-1, 03 JUN 2010 to 01 JUL 2010

Obtain local altimeter setting on CTAF; when not received, use Redmond altimeter setting.

Circling NA at night to Rwy 36.

MISSED APPROACH: Climbing left turn to 7000 via DSD R-178 to DSD VORTAC and hold.

SEATTLE CENTER

128.15 257.75

UNICOM

122.8 (CTAF) 1

7000 DSD R-178		DSD 117.6		COKAY DSD 11		VORTAC			
DOCAS DSD 23.1		PEDME DSD 17		7000		Procedure Turn NA			
≤ 3.04° TCH 40		6200		178°		7000			
VGSI and descent angles not coincident.		6 NM		11 NM					
CATEGORY	A	B	C	D					
S-18	5440-1¼ 1278 (1300-1¼)	5440-1½ 1278 (1300-1½)	5440-3	1278 (1300-3)					
CIRCLING	5440-1¼ 1276 (1300-1¼)	5440-1½ 1276 (1300-1½)	5440-3	1276 (1300-3)					
REDMOND ALTIMETER SETTING MINIMUMS									
S-18	5660-1¼ 1498 (1500-1¼)	5660-1½ 1498 (1500-1½)	5660-3	1498 (1500-3)					
CIRCLING	5660-1¼ 1496 (1500-1¼)	5660-1½ 1496 (1500-1½)	5660-3	1496 (1500-3)					

ELEV 4164

178° 6.2 NM from FAF

TDZE 4162

3465 X 75

36

NW-1. 03 JUN 2010 to 01 JUL 2010

LOC/DME I-DLS 109.35 Chan 30 (Y)	APP CRS 234°	Rwy Idg 4451 TDZE 243 Apt Elev 247
------------------------------------------------------	------------------------	---------------------------------------------------------------

COPTER LDA/DME RWY 25

THE DALLES/COLUMBIA GORGE RGNL/THE DALLES MUNI (DLS)

T Glide slope provided by standard glide slope equipment.
A NA If local altimeter setting not received, procedure NA.

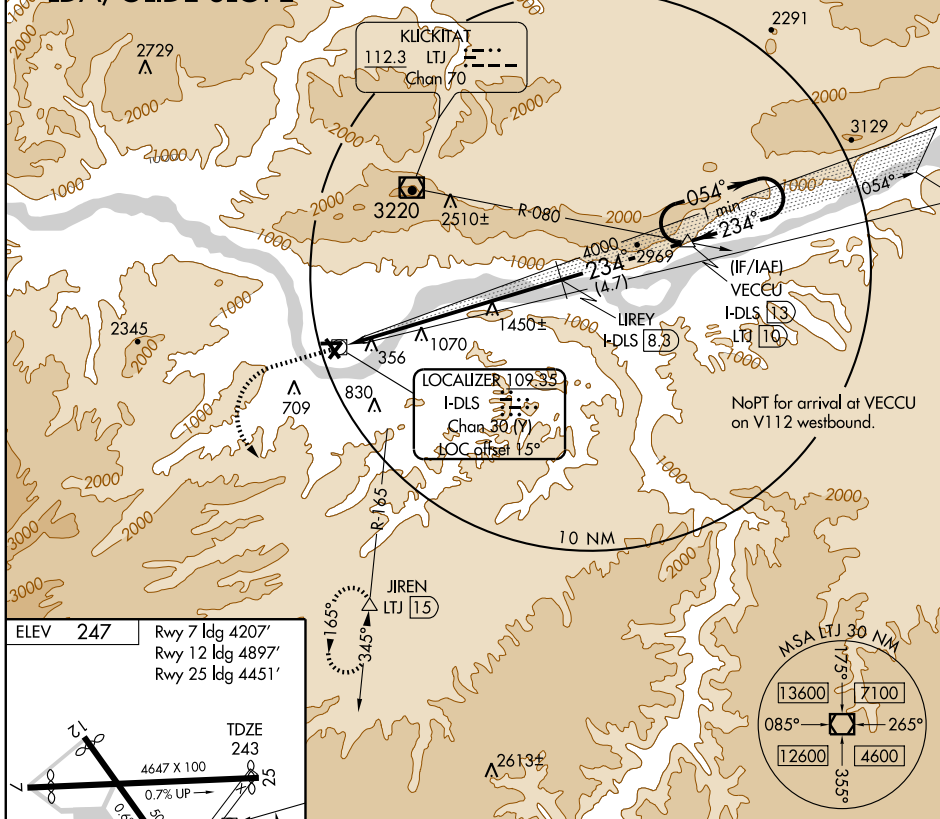
MISSED APPROACH: Climb to 1200 then climbing left turn to 7000 via heading 125° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.

ASOS
135.175

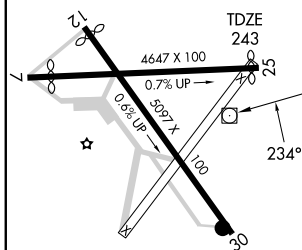
SEATTLE CENTER
119.65 257.6

UNICOM
123.0 (CTAF) 

LDA/GLIDE SLOPE



ELEV	247	Rwy 7 ldg 4207'
		Rwy 12 ldg 4897'
		Rwy 25 ldg 4451'



REIL Rwy 30 **L**
MIRL Rwy 7-25 and 12-30 **L**

Use |DLS DME when on the |ocalizer course.

VECCU
I-DLS 13

100

$$\frac{\text{GS } 4.20^\circ}{\text{TCH } 43}$$

Knots	60	90	120	150	180
Min:Sec					

CATEGORY	COPTER
H-LDA/GS 25	783-1½ 540 (600-1½)

B	C	D
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NA

NA

LOC/DME I-DLS 109.35 Chan 30(Y)	APP CRS 234°	Rwy Idg TDZE Apt Elev	4451 243 247
-----------------------------------------------------	------------------------	-----------------------------	-----------------------------------------

THE DALLES/

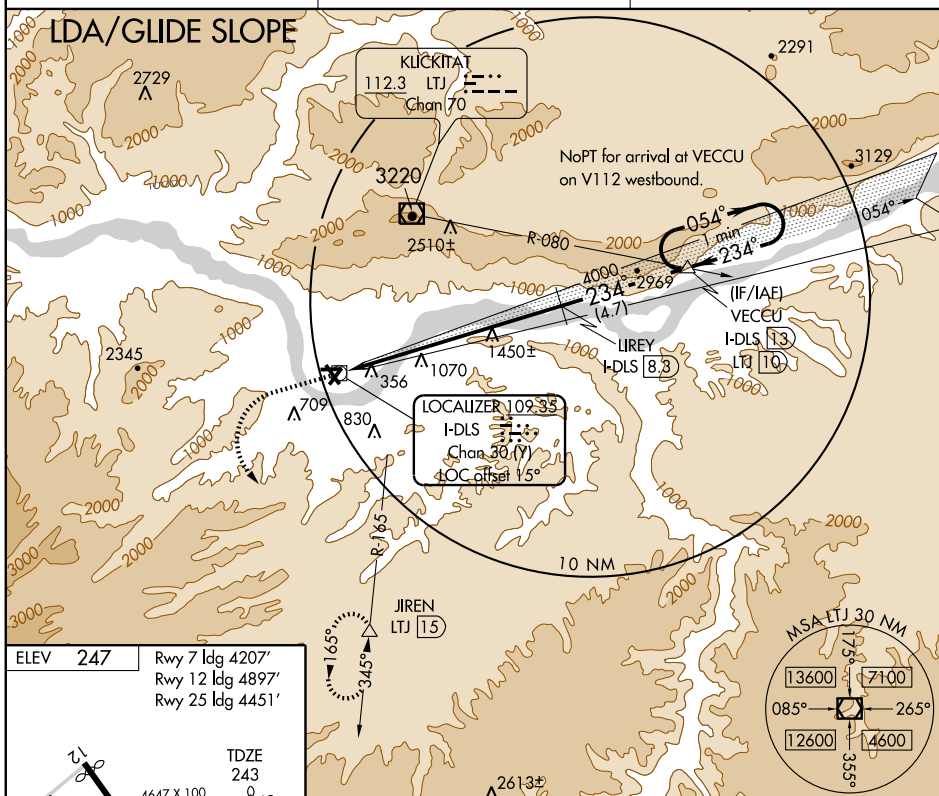
COLUMBIA GORGE RGNI/LTHE DALLES MUNI (DLS)

LDA/DME RWY 25

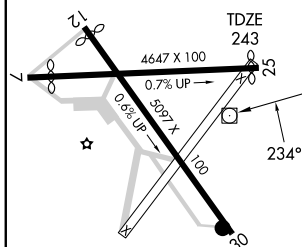
NA Circling requires descent on GS to MDA.
Glide slope provided by standard glide slope equipment.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 1600 then climbing left turn to 7000 via heading 135° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.

ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
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ELEV 247	Rwy 7 Idg 4207'
	Rwy 12 Idg 4897'
	Rwy 25 Idg 4451'



REIL Rwy 30 0
MIRL Rwy 7-25 and 12-30 0

Knots	60	90	120	150	180
Min:Sec					

	1600	7000	LTJ R-165 112.3	JIREN △	Use I-DLS DME when on the localizer course.	VECCU I-DLS 13	One Minute Holding Pattern
	↑	↻ 135°					
			LIREY I-DLS 8.3			054° → ← 234°	5300
			4000				GS 4.20° TCH 43
			8.2 NM	4.7 NM			
CATEGORY	A	B	C	D			
S-LDA/GS 25	1368-2¾	1125 (1200-2¾)					NA
CIRCLING	1380-3	1133 (1200-3)					NA

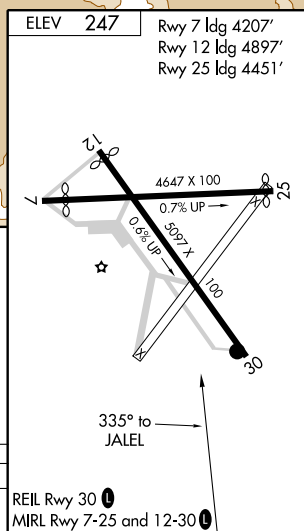
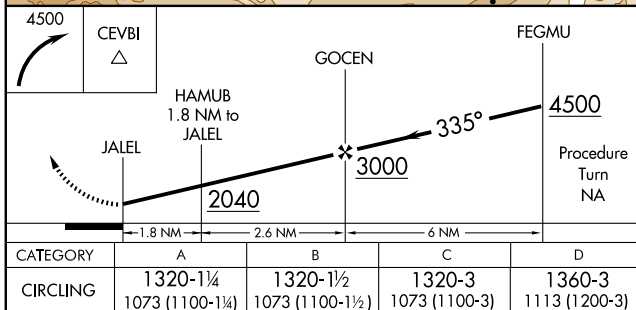
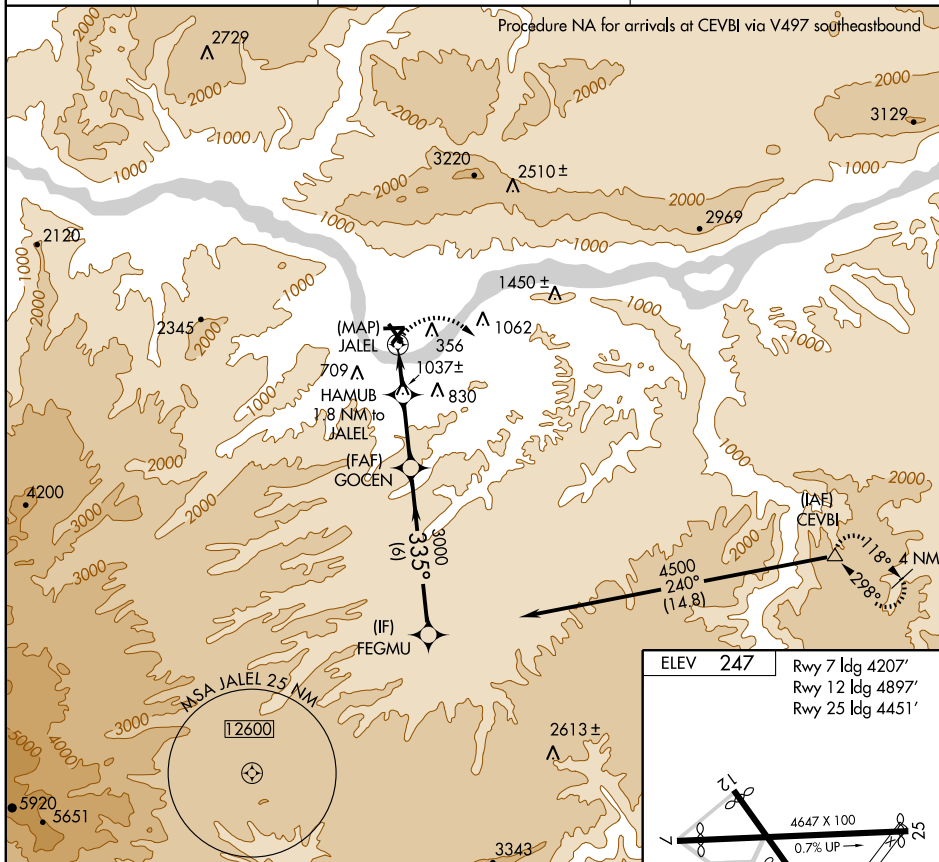
APP CRS	Rwy Idg	N/A
335°	TDZE	N/A
	Apt Elev	247

RNAV (GPS)-A

THE DALLES/COLUMBIA GORGE RGNL/THE DALLES MUNI (DLS)

 DME/DME RNP-0.3 NA. Circling to Rwy 7 NA at night. Visibility reduction by helicopters NA. If local altimeter setting not received, procedure NA.	MISSED APPROACH: Climbing right turn to 4500 direct CEVBI and hold.
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ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
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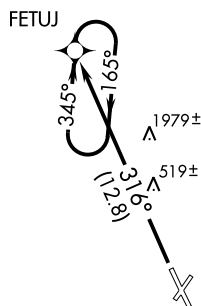


SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.45

CONTIGUOUS U. S. ADIZ

W-570

W-570



NOTE: 1. GPS required
2. RNAV 1

NOTE: Rwy 31: 2000-3 or standard with minimum climb
of 350' per NM to 4500'.
Rwys 1, 13, and 19 not authorized for this
Departure Procedure.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 31: Climb to 5000 via 316° course to FETUJ WP.

Northbound aircraft continue on course to assigned altitude.

Southbound aircraft continue climb in FETUJ WP holding pattern (south, right turn, 345° inbound) to MEA for assigned route before proceeding on course.

APP CRS	Rwy Idg	5001
136°	TDZE	28
	Apt Elev	36

RNAV (GPS) RWY 13
TILLAMOOK (TMK)

T When local altimeter setting not received, use Astoria altimeter setting.

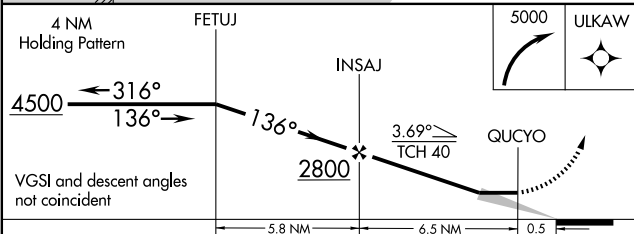
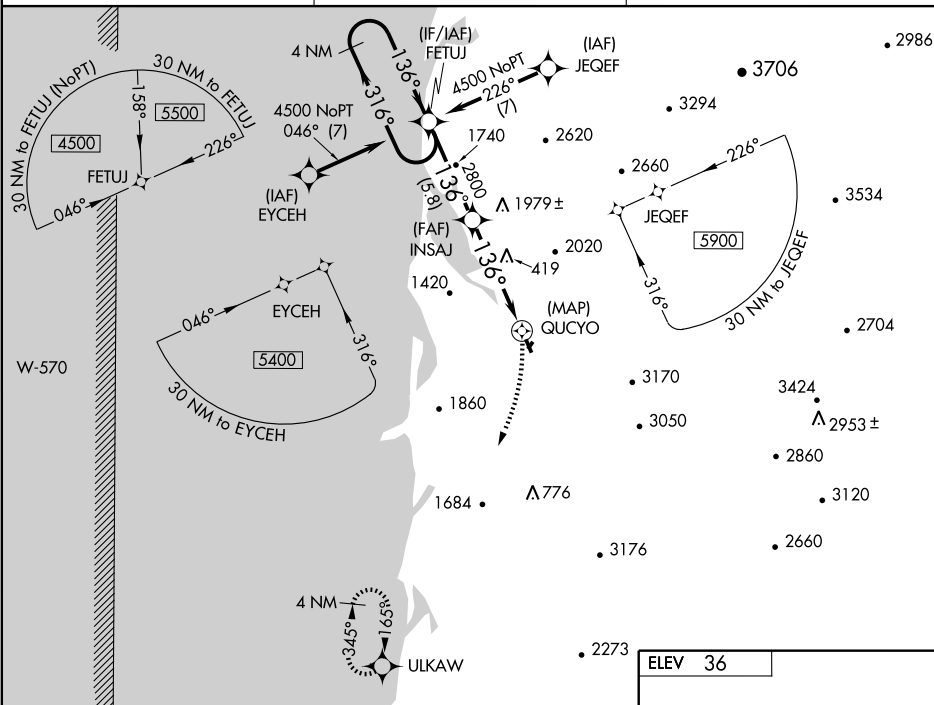
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling NA Rwy 1-19 at night.

MISSED APPROACH: Climbing right turn to 5000 direct ULKAW WP and hold.

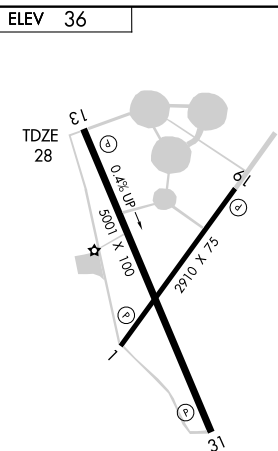
AWOS-3
120.0

SEATTLE CENTER
124.2 317.6

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
LNAV MDA	760-1	732 (800-1)	760-2 732 (800-2)	NA
CIRCLING	880-1 844 (900-1)	920-1¼ 884 (900-1¼)	920-2¾ 884 (900-2¾)	NA
ASTORIA ALTIMETER SETTING MINIMUMS				
LNAV MDA	1280-1¼ 1252 (1300-1¼)	1280-1½ 1252 (1300-1½)	1280-3 1252 (1300-3)	NA
CIRCLING	1420-1¼ 1384 (1400-1¼)	1460-1½ 1424 (1500-1½)	1460-3 1424 (1500-3)	NA



REIL Rwy 13
MIRL Rwys 1-19 and 13-31 **L**